Thermal Printer User's Manual

2684

Zebra Technologies Corporation

User's Manual No. 980350-001 Rev. A

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FOREWORD

This manual provides installation and operation information for the LP 2684 and TLP 2684 printers, manufactured by Zebra Technologies Corporation, Camarillo, California.

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TRADEMARKS

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CE Compliance

European Council Directive		Compliance to Standards	
89/336/EEC	EMC Directive	EN55022-B 1995	RF Emissions control
92/31/EE	EMC Directive	EN50082-1 1992	Immunity to Electromagnetic Disturbances
73/23/EEC	Low Voltage Directive	EN60950 IEC950	Product Safety

FCC NOTICE:

This equipment has been tested and found to comply with the limits of a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

INDUSTRY CANADA NOTICE:

This device complies with Industry Canada ICS-003 class A requirements.

Cet equipement est conforme a l'ICS-003 classe A de la norm Industrielle Canadian

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General Cautions and Warnings

These pages describe general safety and maintenance warnings and cautions for the printer. They are referenced throughout the manual. The manual may also include other warnings and cautions not displayed here.

Warning - Shock Hazard

The printer should never be operated in a location where it can get wet. Personal injury could result.

Warnung - Stromschlaggefahr - Der Drucker sollte nie an feuchten Standorten in Betrieb genommen werden. Es besteht erhöhte Verletzungs und Unfallgefahr.

Warning - Static Discharge

The discharge of electrostatic energy that accumulates on the surface of the human body or other surfaces can damage or destroy the print head or electronic components used in this device. DO NOT TOUCH the print head or the electronic components under the print head assembly.

Caution - Printer Setup & Handling

1)When installing or modifying the printer setup or configuration, <u>ALWAYS TURN POWER OFF Before</u>:

- ***A) Connecting any cables.***
- ***B) Performing any cleaning or maintenance operations.***
- ***C) Moving the printer.***

2) Damage to the printer interface connector, accessories or enclosure may result from placing the printer on it's front bezel or backside during unpacking or handling.

Media Cautions & Tips

1) Always use high quality, approved labels and tags. Approved supplies can be ordered from your dealer.

2) If poor quality, adhesive backed labels are used, that DO NOT lay flat on the backing liner, the exposed edges may stick to the label guides and rollers inside the printer, causing the label to peel off from the liner and jam the printer.

3) DO NOT use non-approved transfer ribbon. Permanent damage to the print head may result if a non-approved ribbon is used. Non-approved ribbons may be wound incorrectly for the printer or contain chemicals that may damage the print head.

4) IMPORTANT - If a transfer ribbon is installed incorrectly by the operator, damage to the print head may result.

5) DO NOT use a ribbon when printing with direct thermal media.

Media Reload Tip

If you should run out of labels or ribbon while printing, DO NOT turn the power switch OFF (0) while reloading or data loss may occur. The printer will automatically resume printing when a new label or ribbon roll is loaded.

Print Mode Control (TLP 2684)

The printer is reconfigured for direct thermal (or thermal transfer) printing with the "O" command for the TLP thermal transfer printer. See the EPL2 programmer's manual for details.

Print Quality Tip

Print density (darkness) is affected by the heat energy (density setting) applied and by the print speed. Changing both Print Speed and Density may be required to achieve the desired results.

1
Installation

This section provides information on the installation of the printer and software.

Introduction

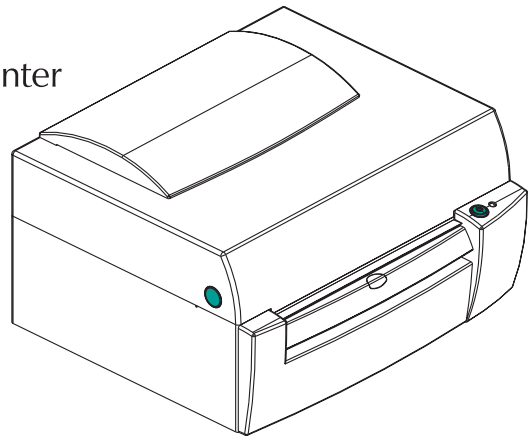
The printer models are low cost, manufacturing oriented, thermal printers. The LP can do direct thermal printing. The TLP can do both thermal transfer and direct thermal printing. The printers handle large labels, hazardous material labels, small signs, fan-fold media, and shipping and receiving labels while operating the range from office to industrial enviornments.

The printer features sturdy construction, a small footprint, a heavy-duty motor, and sharp 203 dpi (8 dots/mm) reliable printing up to 8.5 inches (216 mm) wide.

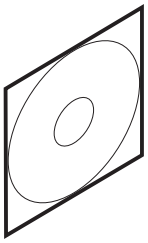
The printer can print letter (8.5"x 11") and A4 (210mm x 297mm) sizes. It can print forms up to 8.5 inches (216 mm) wide and 22 inches (558.8 mm) long or two times A4 (210mm x 594mm) size with optional memory added.

Unpacking Your Printer

Printer

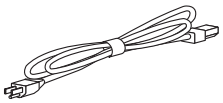


Software and Documentation CD

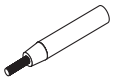


Media Retainers

Power Cord

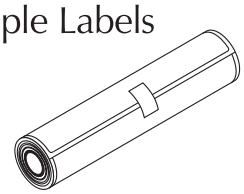


Cleaning Pen

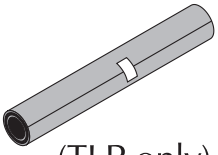


Media Holder

Sample Labels

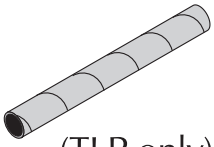


Sample Ribbon



(TLP only)

Ribbon Core



(TLP only)

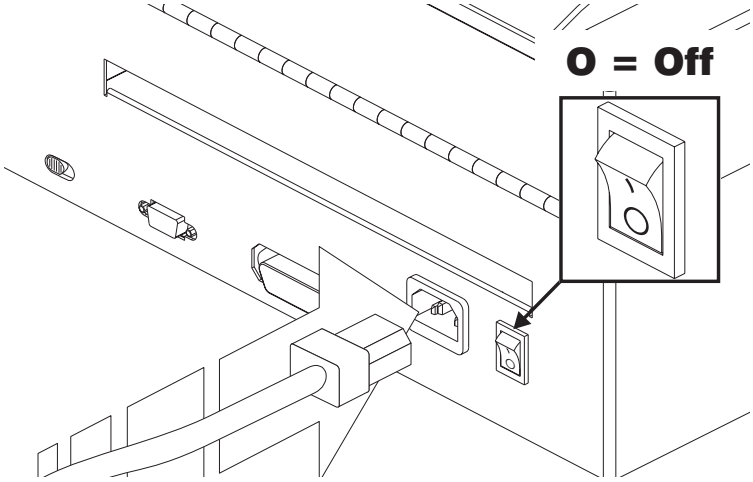
Installation

The following steps will guide you through the installation of the printer and software.

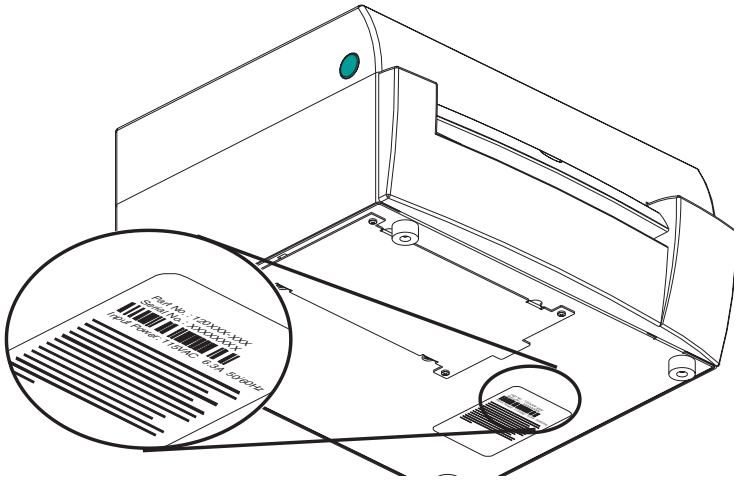
Step ❶ Attach Power

Power OFF

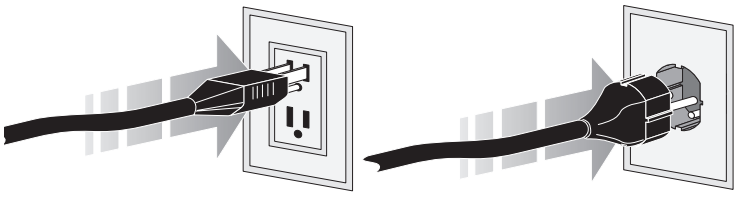
Attach Power Cord



Check Voltage



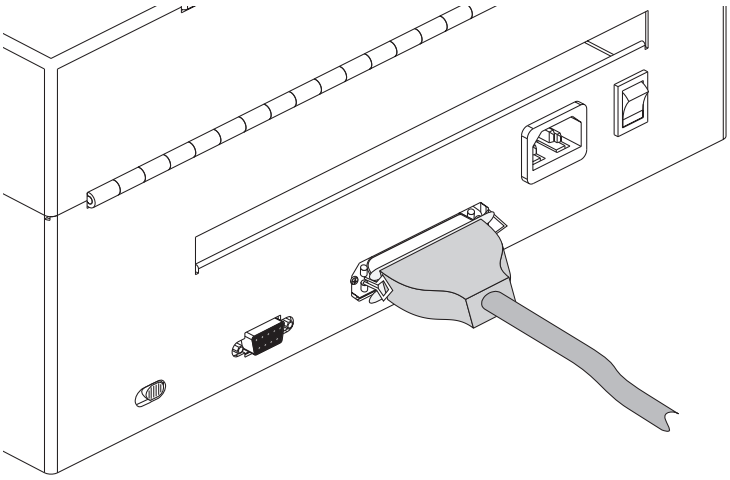
Plug Power Cord Into AC Outlet



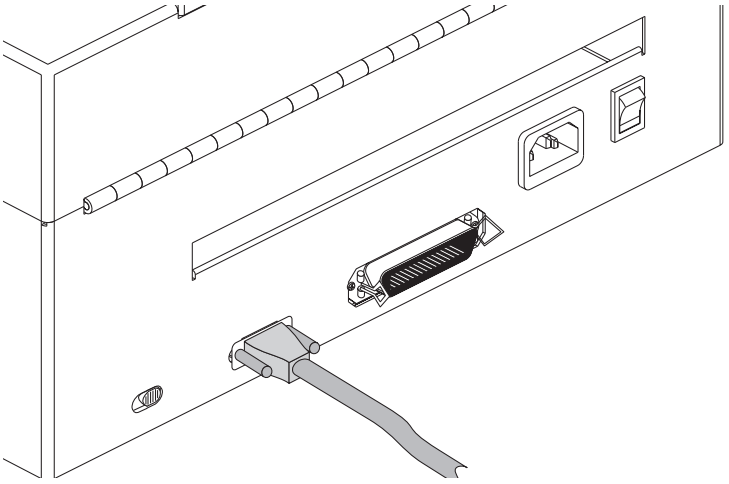
See Warnings - Page vi

Step ❷ Attach Interface Cable

Parallel interface

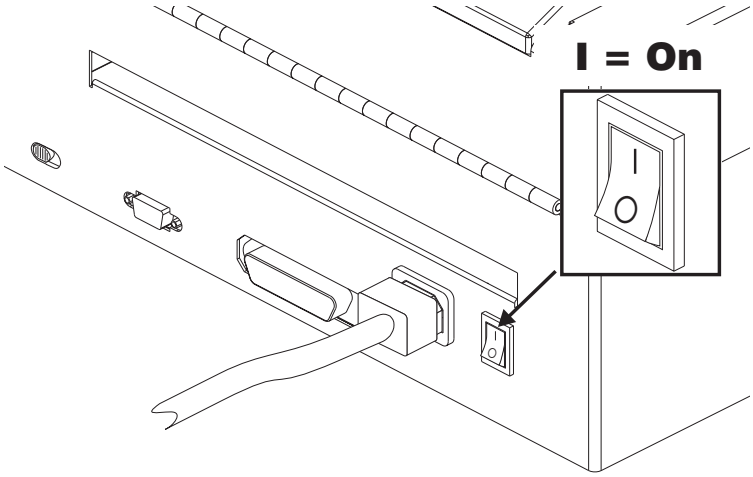


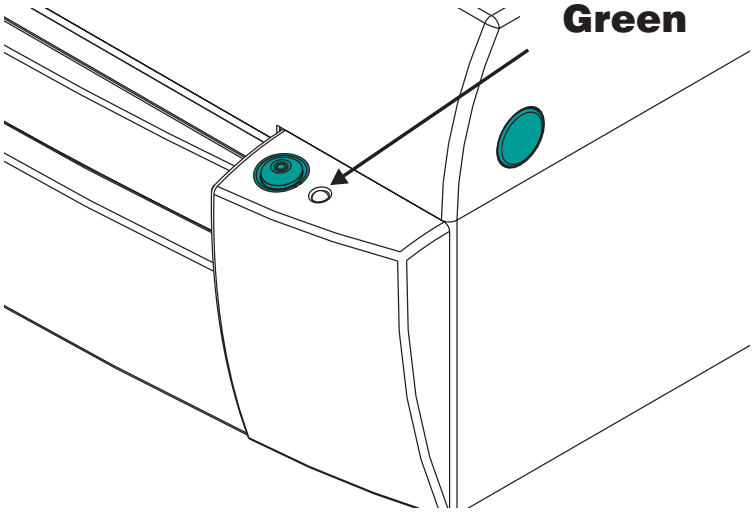
Serial interface



For additional information on serial cable wiring, refer to Appendix A.

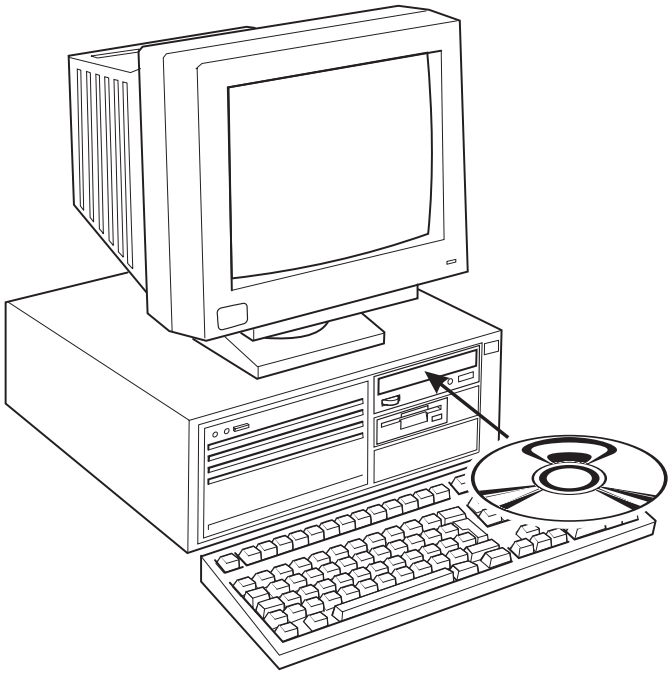
Step ❸ Apply Power





If the indicator fails to light, refer to Appendix A - Troubleshooting.

Step ❹ Install Software



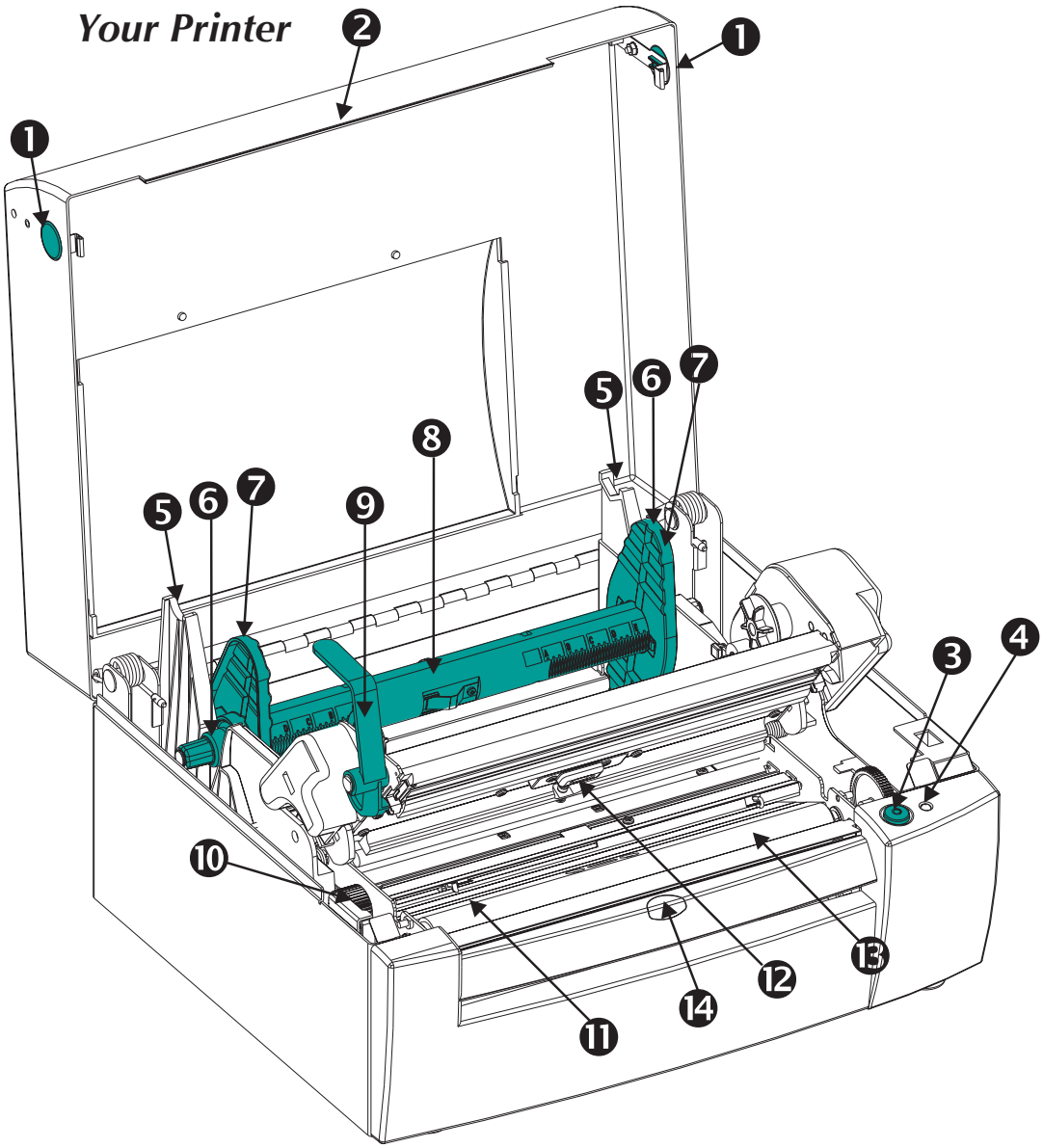
Start your computer and follow the installation instructions on the compact disk (CD).

Refer to Section 2 - Operation, for information on loading labels and using your printer.

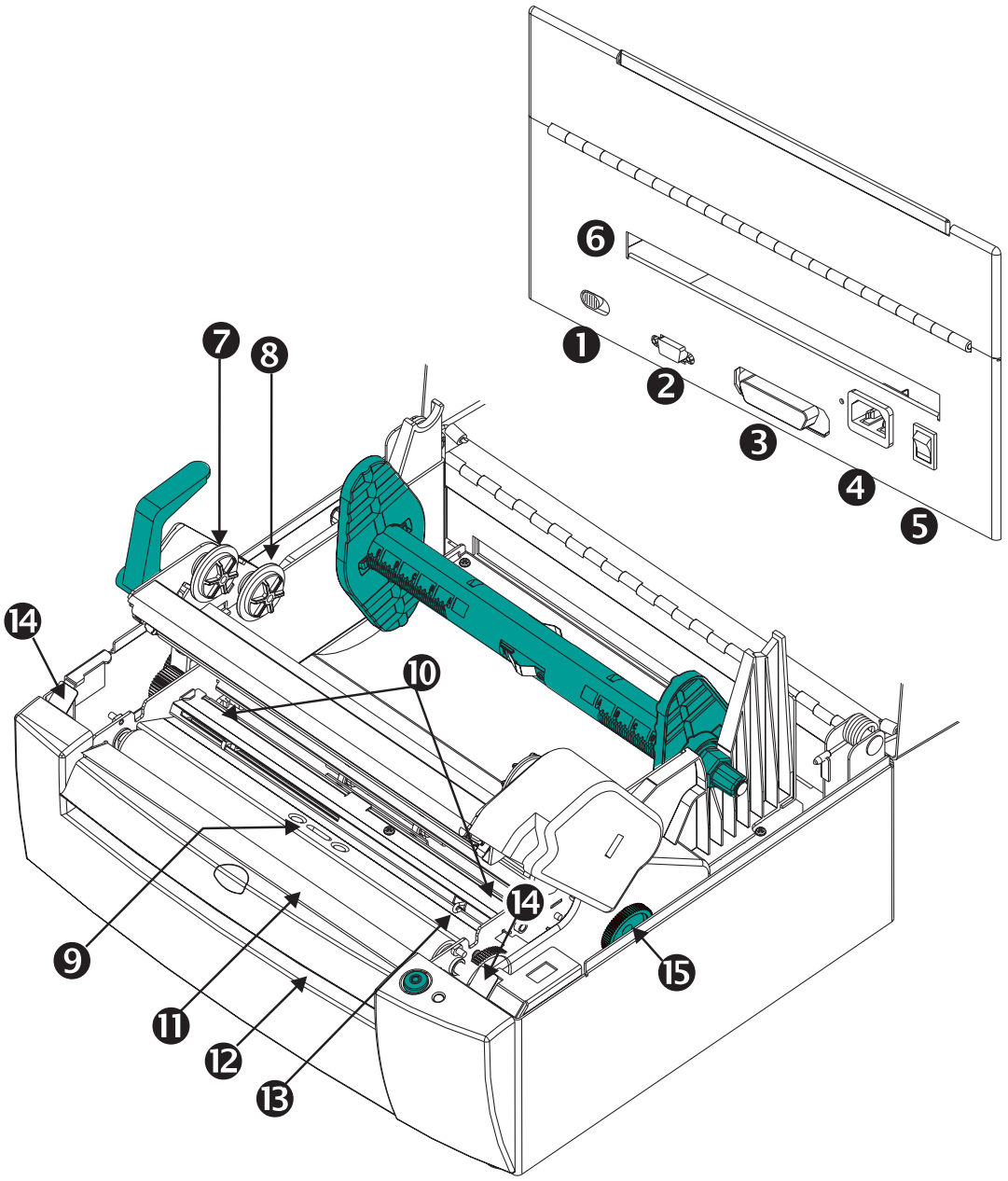
2
Operation

This section provides information on the operation of the printers, identifying parts, how to use the Feed button, understanding the Status indicator, preparing a media roll, loading media, performing the AutoSense procedure, cleaning the printer, and using the optional label dispenser (if present).

Your Printer



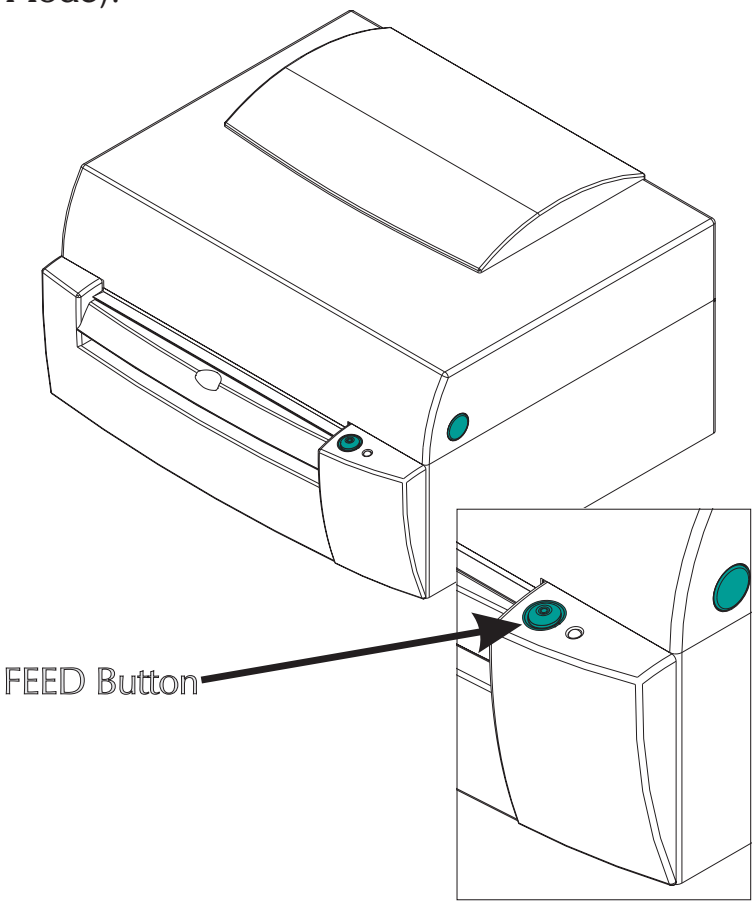
❶ Cover Release Buttons
❷ Cutting Edge
❸ FEED Button
❹ STATUS Indicator
❺ Upper Media Stand (Loading Position)
❻ Lower Media Stand (Printing Position)
❼ Media Roll Retainers
❽ Media Roll Holder
❾ Carriage Lock/Release Lever
❿ Transmissive (Gap) Sensor Adjustment Gear
⓫ Transmissive (Gap) Sensor Position Indicator
⓬ Ribbon Sensor
⓭ Platen Roller
⓮ Label-Taken Sensor



1. Batch/Dispense Select Switch
2. Serial Interface
3. Parallel Interface
4. Power Cord Receptacle
5. On/Off Switch
6. Fan-Fold Media Entry
7. Ribbon Take-up Spindle
8. Ribbon Supply Spindle
9. Reflective (Black Mark) Sensor
10. Media Guides
11. Dispenser Bar
12. Label Liner Exit
13. Release for Sensor Bracket
14. Releases for Front Bezel
15. Media Guide Adjustment Knob

The FEED Control

The FEED button controls specific printer functions: feeding media (labels, tags or continuous media), loading media, pausing printing, and initiating AutoSense (Dump Mode).



Use the FEED control button in normal operation by **tapping** or **holding** the button.

- **Tapping** the FEED Button with media loaded performs a "Form Feed." The media advances to the top of the next label.
- **While Printing, Tapping** the FEED Button pauses batch printing (at the next label gap) with indicator green flashing red. Pressing the FEED Button again resumes printing with the next label in the batch process.

- **Holding** the FEED button down performs a continuous Form Feed. After releasing the button, the printer feeds the media until the next top of form is reached.
- **Holding** the FEED button without media loaded performs a continuous Line Feed until you release the button or the printer detects media. Use this "Power Media Loading" when reloading media.
- **Holding** the FEED button down while powering up the printer with media loaded makes the printer enter AutoSense mode. See AutoSense on page 29 for important details.

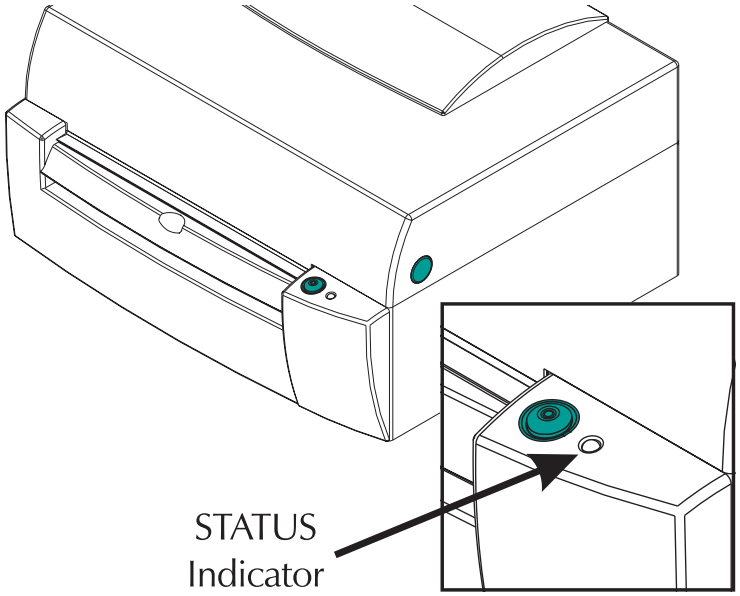
Always run the AutoSense procedure when loading a new batch or new type of media. Media from the same manufacturing lot and having identical dimensions do not require the AutoSense procedure to be run every time new media is loaded.

The Form Feed length is set by printer programming **Q** command in EPL2 programming language or by the AutoSense feature, an automatic label and gap length sensing operation. See AutoSense, page 29.

Continuous media with no label gaps, containing black marks or notch holes, require programming to set the form length and feed distance.

The STATUS Indicator

The STATUS indicator lights and blinks in various colors. When the printer power is first switched ON (1), the STATUS indicator will glow GREEN, indicating that the printer is ready for operation.

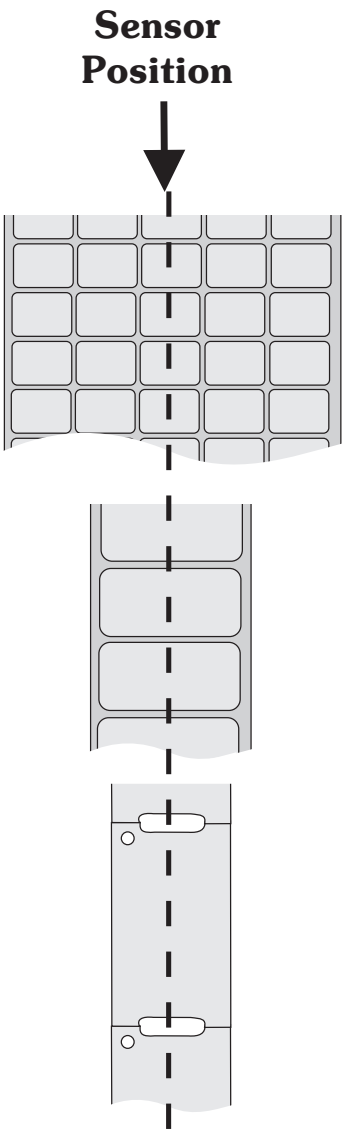


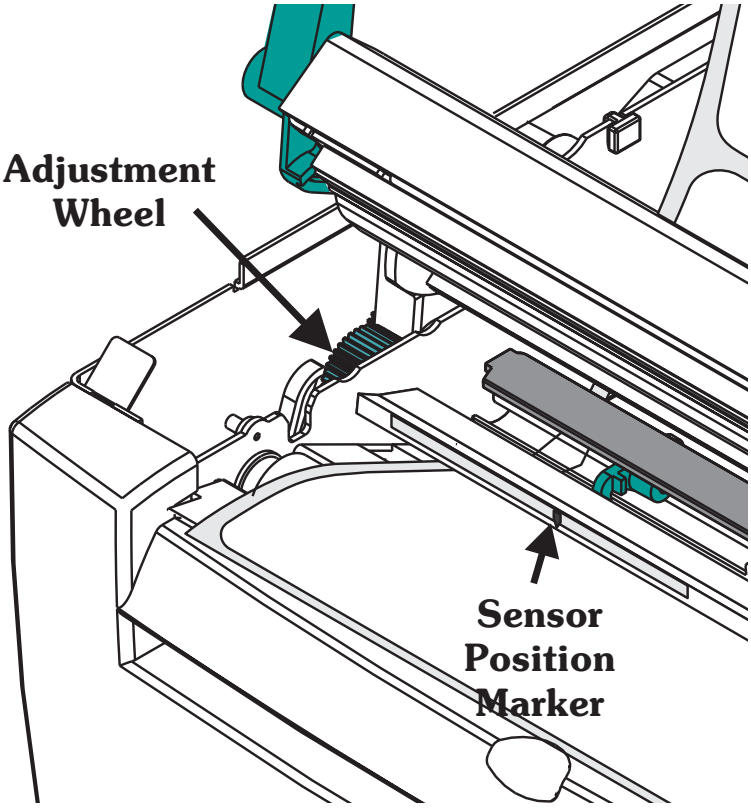
Indicator Color	Meaning
GREEN	1) Power ON, ready for use. 2) Printing, operation normal.
GREEN with RED Blinking Twice	Printer PAUSED (during a batch print operation)
AMBER	1) Command Error condition 2) Command Syntax Error
RED	1) Media Out (printing) 2) Ribbon Out (printing) 3) Power-up failure
RED Flashing	Print Carriage Open
DARK	Power OFF.

Refer to Appendix A for additional information on troubleshooting error conditions.

The Label Sensor

When using the transmissive (gap) sensor for top of form (label) sensing, verify that the sensor is positioned at minimum label gap point or centered over a tag hole. See Top of Form Sensing, page 28, for more details on sensor operation.





Turn the sensor's adjustment wheel towards the rear of the printer to move it into the middle. Turn it towards the front of the printer to move it out to the media edge. Do not position the sensor at the edge of media.

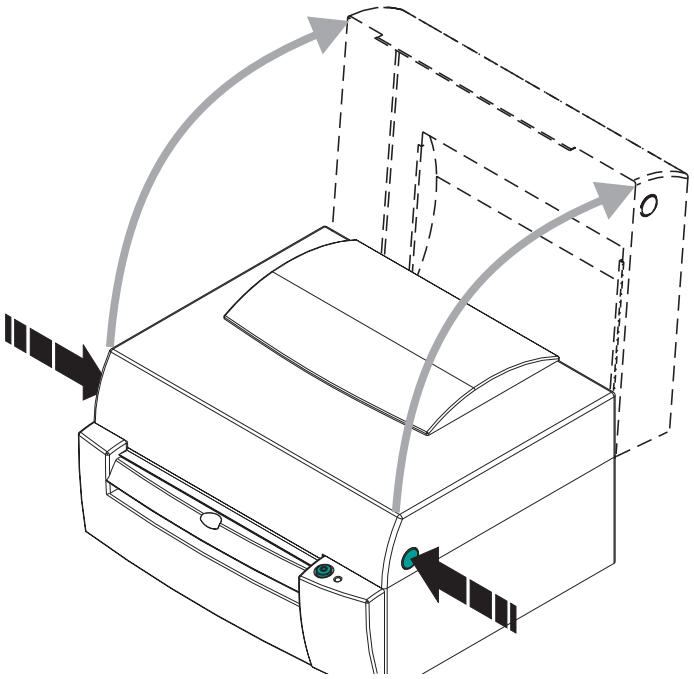
Center the transmissive (gap) sensor for most labels and always center it for continuous media.

Loading Labels or Tags

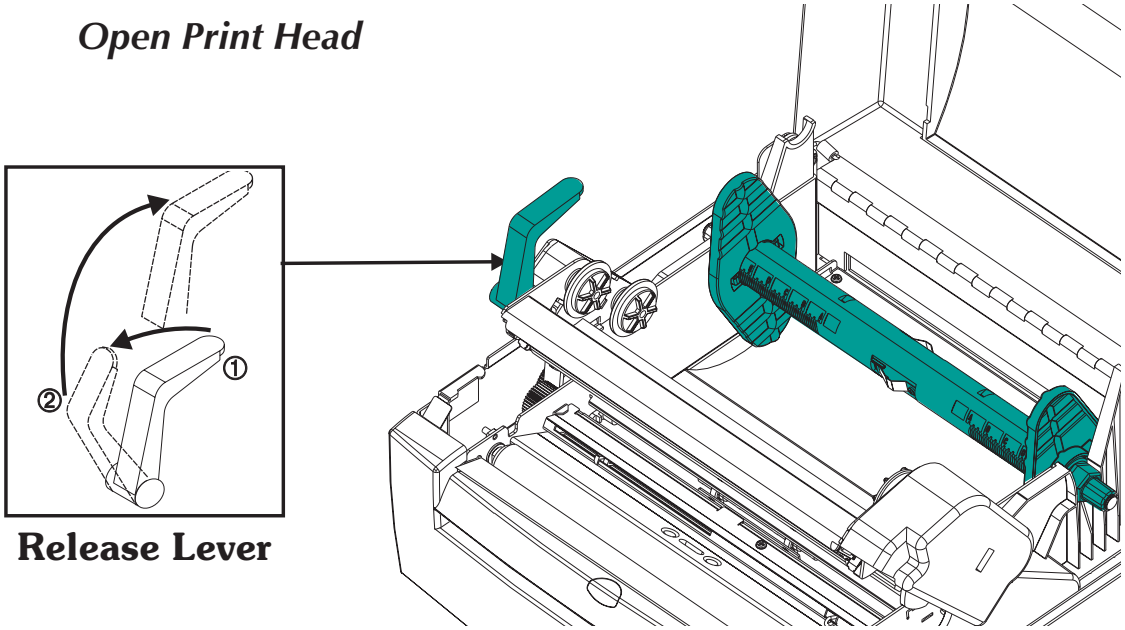
Your printer can print on adhesive backed labels, non-adhesive tags or continuous media (typically paper). The printer is capable of using media on a roll or fan fold media.

Step ❶ Open Printer Mechanisms

Open Cover



Open Print Head

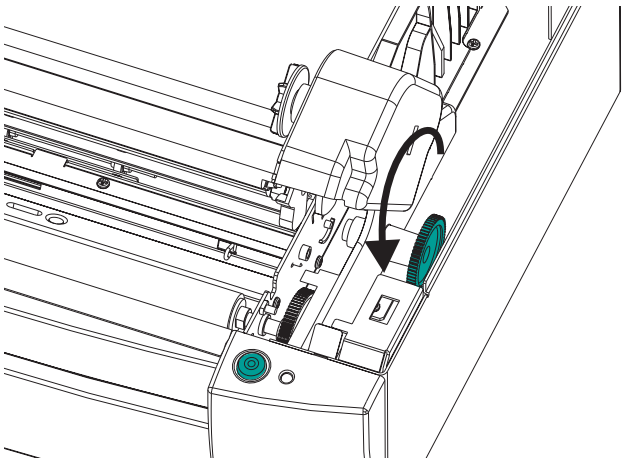


Release Lever

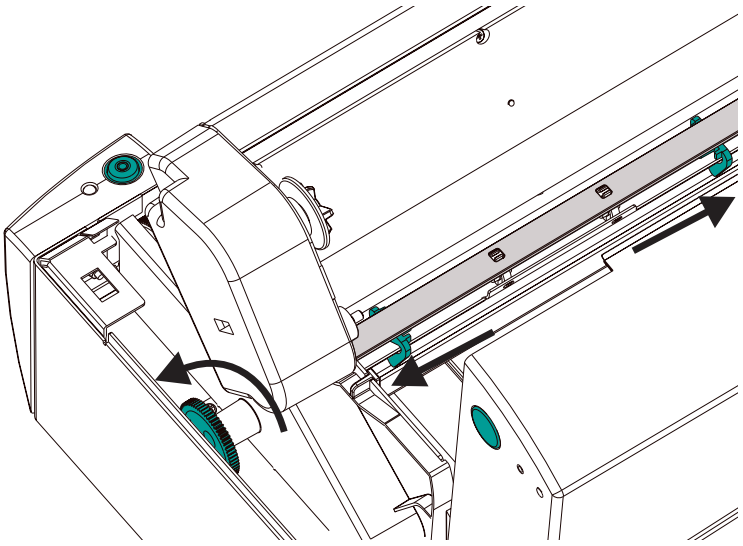
Open Printer Mechanisms (continued).

Open Guides

Turn the adjustment wheel towards the front of the printer.

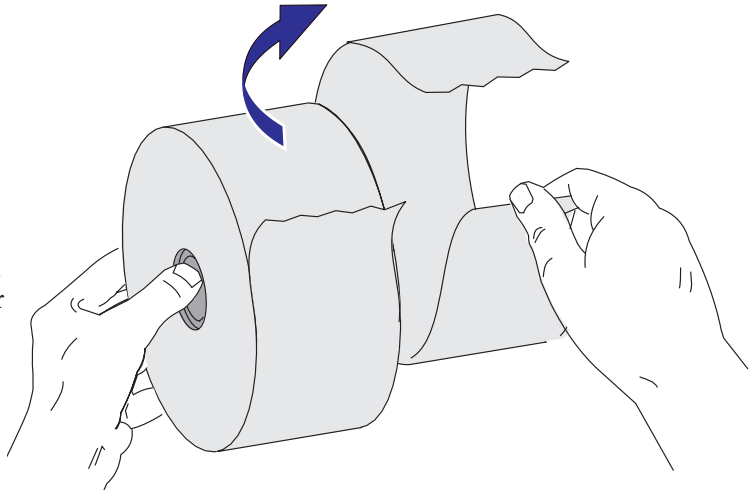


Open the guides until they are wider than the media.



Step ❷ Prepare Media.

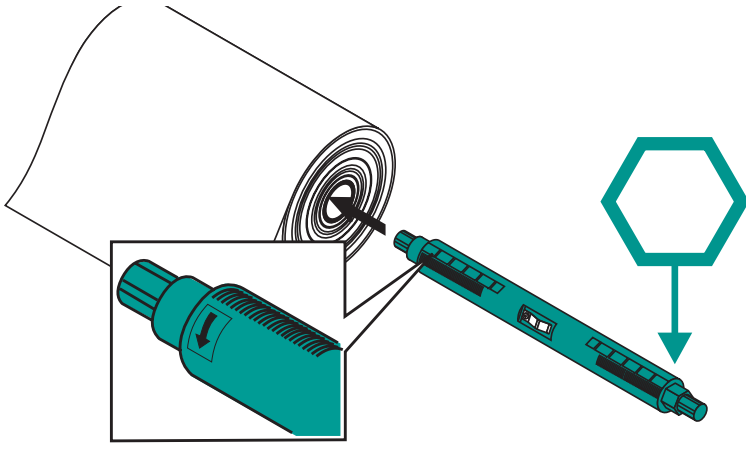
Remove the outside length of media



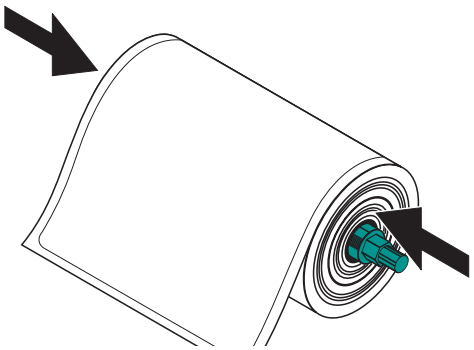
For more information on media preparation, refer to the cleaning procedures later in this chapter.

Prepare Media (continued).

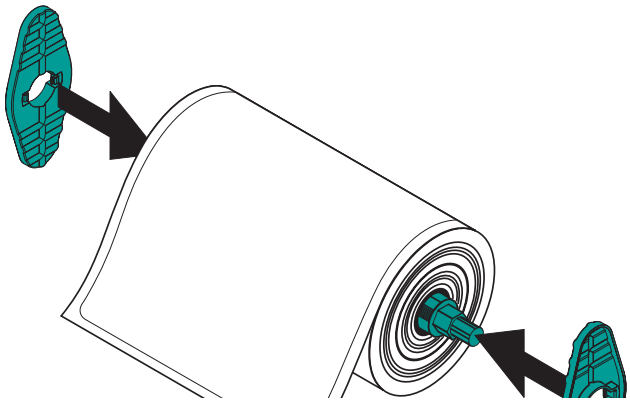
Insert



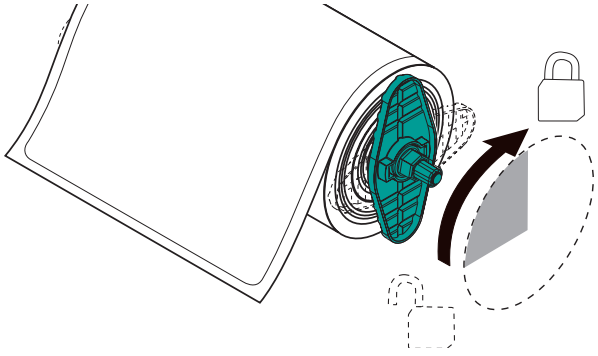
Center



Optional

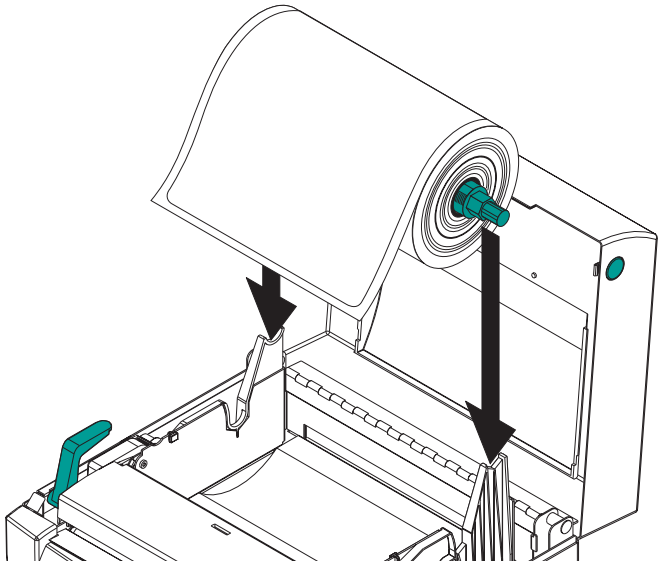


Lock

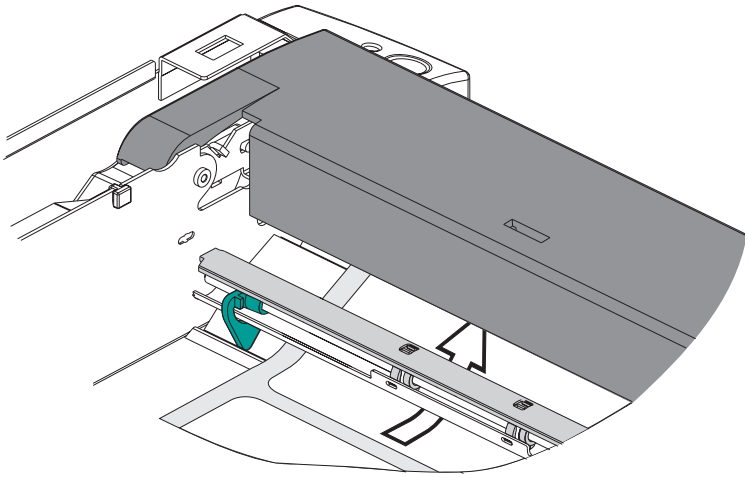


Step ❸ Thread the Media

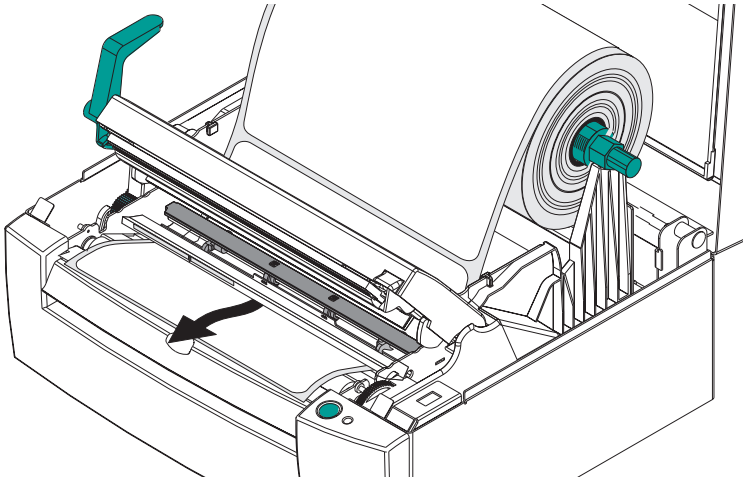
Load From Upper Holder



Guide Leader Under Brackets

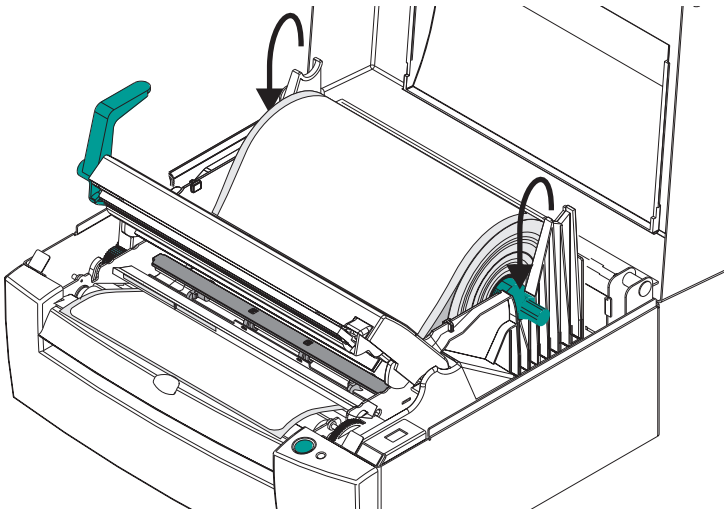


Exit From Front of Printer



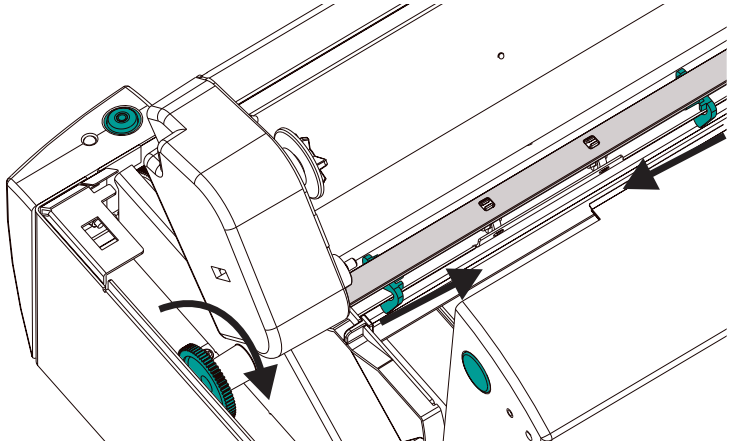
Thread the Media (Continued)

Seat Media in Printing Position

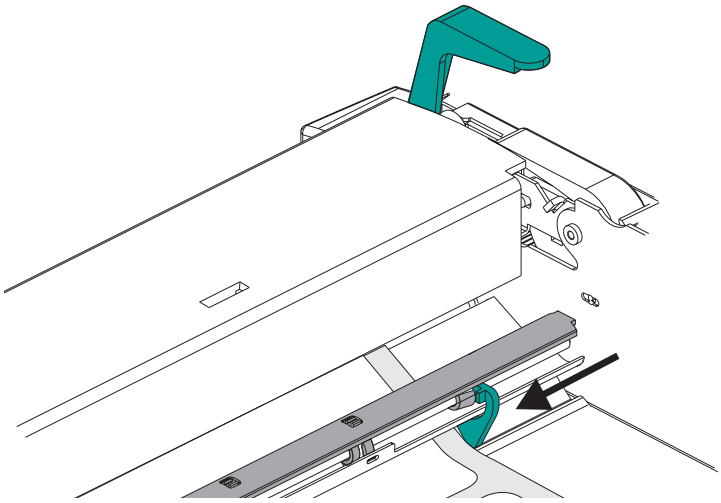


Step ❹ Close Printer Mechanisms

Close Guides

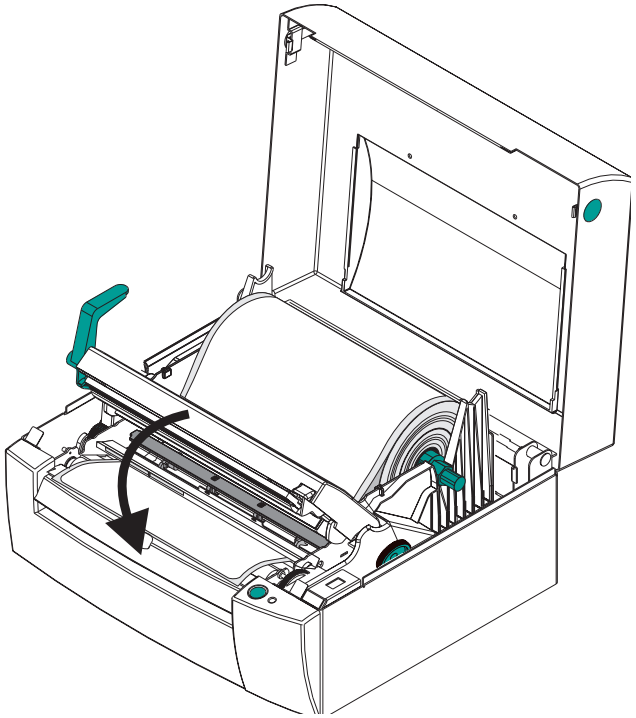


Guides Must Match Media Width

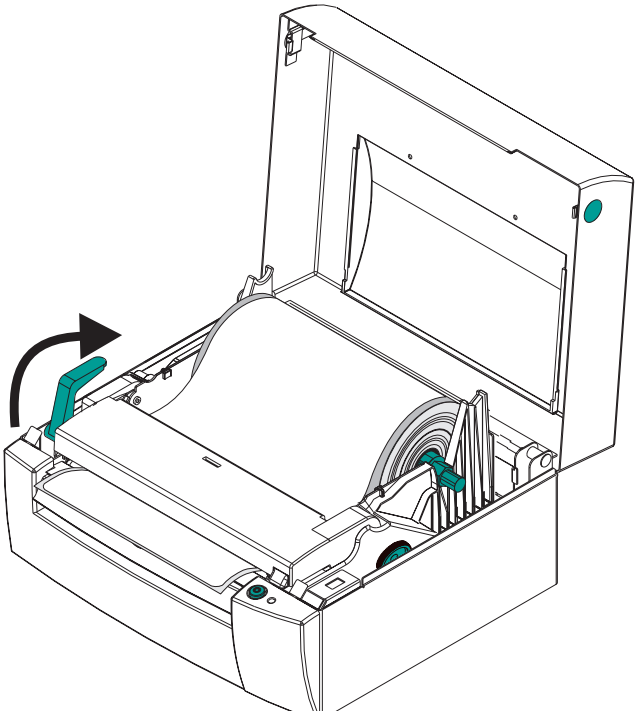


Close Printer Mechanisms (Continued)

Lower Print Head



Push Lever Back to Lock



Turn on the printer power. Tap the FEED control until the indicator glows GREEN.

Step ❺ Set Label Parameters

You may need to perform the following actions:

- Use the AutoSense procedure for first time use of new media to set the transmissive (gap) sensor.
- Use the AutoSense procedure for detection of label and gap lengths.
- Use EPL2 programming **Q** command to set form length (and gap) as well as media detection and control method for sensing label gap, black mark or continuous (unmarked) media.

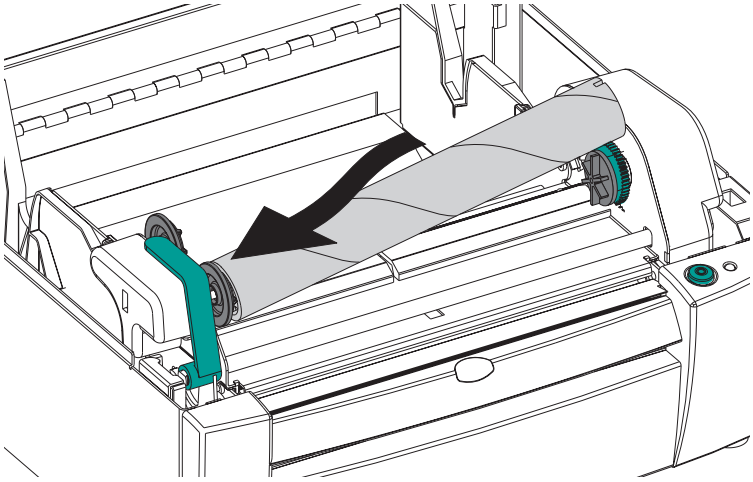
Windows Users!
Use *Settings* / *Printers* on the Start Menu of Windows 95 or Windows NT versions 3.51 & 4.0 to select the label size that matches the labels loaded in the printer.

Loading Transfer Ribbons

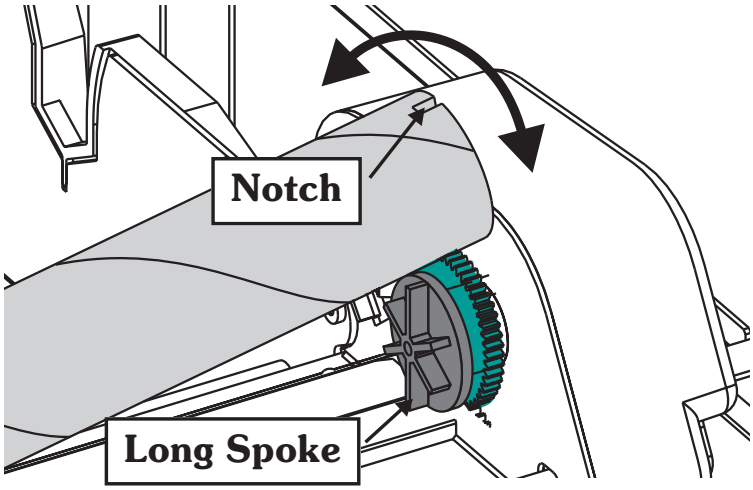
If your printer has ribbon spindles attached to the print carriage, you can load transfer ribbons. Transfer ribbons are used when printing on thermal transfer media such as adhesive labels or non-adhesive tags.

Step ❶ Install take-up core.

Push Onto Left Front Spindle



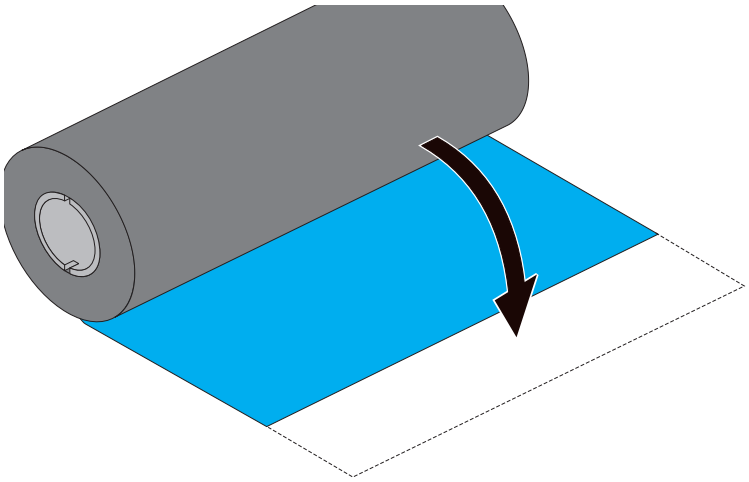
Place Notches on Long Spokes of Right Front Spindle



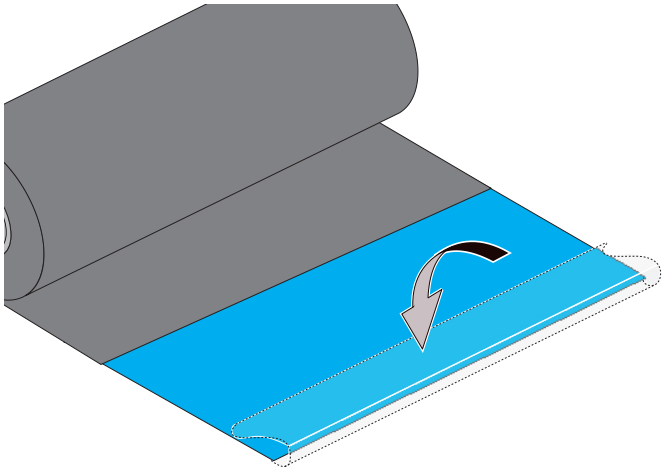
The front spindles pull the ribbon across the print head and take up the used ribbon.

Step ❷ Prepare ribbon.

Pull Adhesive Strip Free



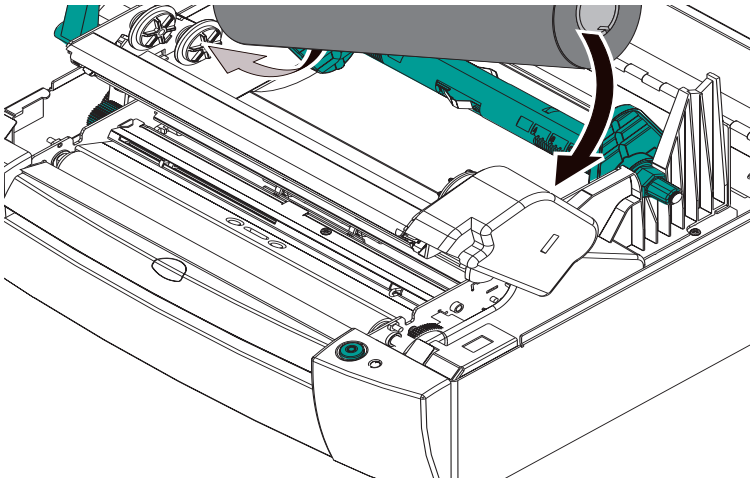
Stick Adhesive Strip Onto Ribbon Leader



Thermal transfer ribbons are available in general purpose wax (blue leader), general purpose wax-resin (silver leader) and polyester resin (gold leader).

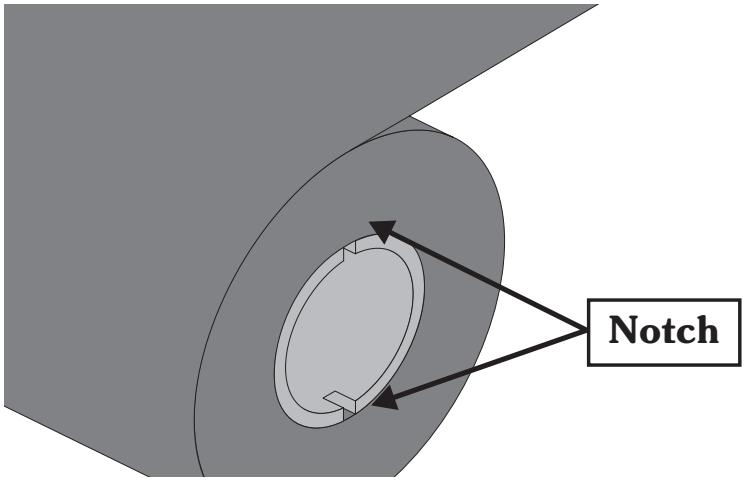
Step ❸ Install ribbon.

Push Onto Left Rear Spindle



The ribbon feeds from the top of the roll toward the back of the printer.

Place Notches On Long Spokes of Right Rear Spindle.

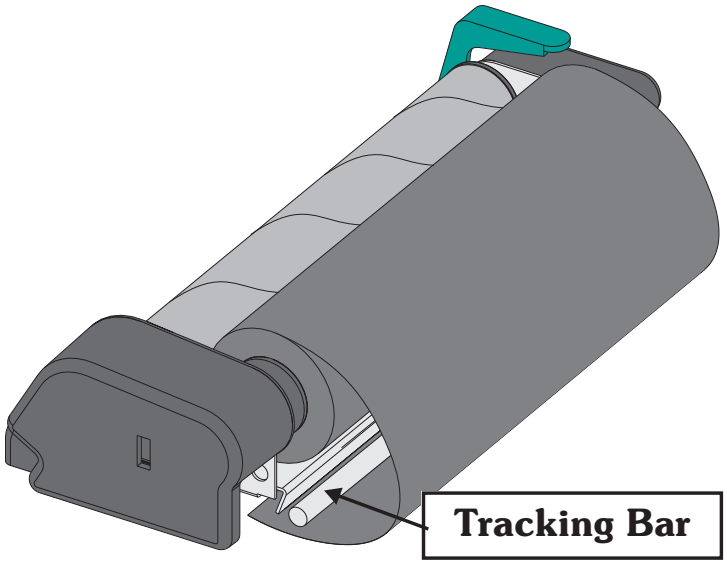


The rear supply spindles provide back-tension to avoid wrinkles.

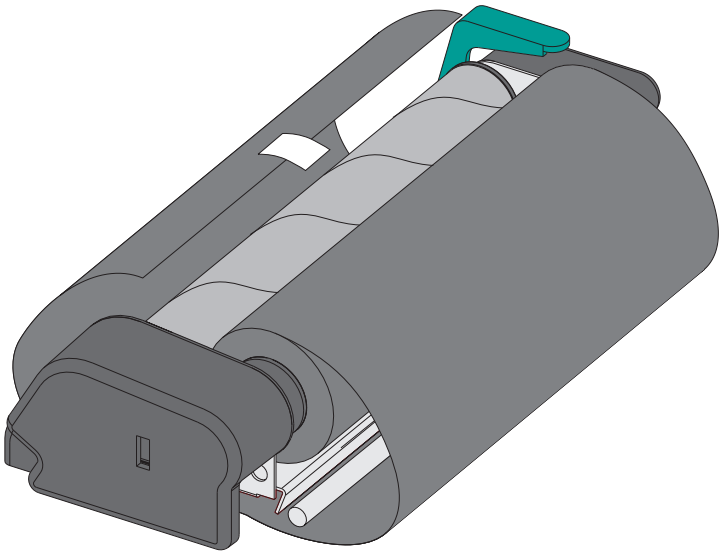
Step ❹ Thread ribbon

Caution: The ribbon follows a different path from the labels. The ribbon threads above the brackets that hold the media guides and transmissive (gap) sensor.

Wrap Ribbon Around Print Carriage and Ribbon Tracking Bar



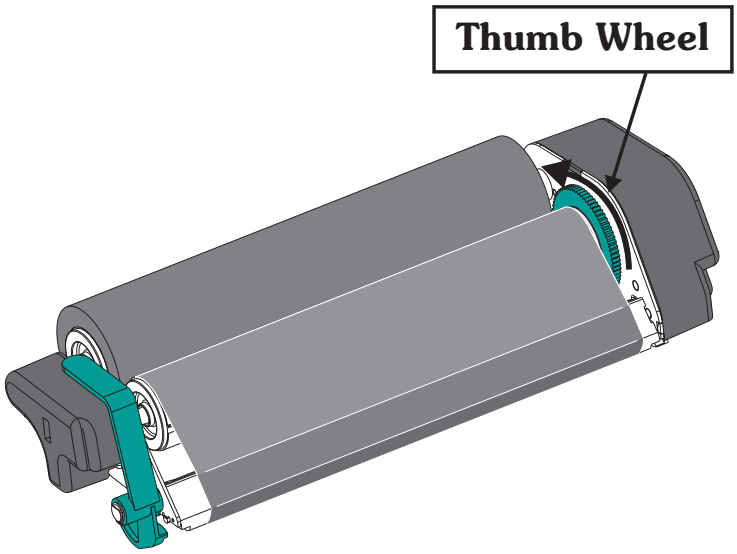
Attach Adhesive Strip to Ribbon Take-Up Core (Or Use Tape)



The tracking bar automatically equalizes tension across the ribbon's width.

Step ❺ Tighten ribbon.

Roll the Ribbon Take-Up Core to Remove Slack



After you load media, hold the ribbon snug with the thumb wheel and close the print head. See label and tag (media) loading, page 14.

Press the FEED button (printer power must be on) to remove slack and properly seat the ribbon. Repeat until the slack is removed.

Replacing Transfer Ribbons

If the supply of ribbon runs out before finishing a print job, the indicator lights red and the printer waits for you to add more ribbon.

Step ❶ Keep the power on as you change ribbon.

Step ❷ Pull the ribbon off of the empty supply roll; then, remove the full take-up roll.

Step ❸ Move the empty ribbon core from the supply spindles to the take-up spindles.

Step ❹ Load a new ribbon roll (refer to the previous procedure if necessary).

Step ❺ Close the print head carriage and press the Feed button to restart printing. The printer continues with the print job.

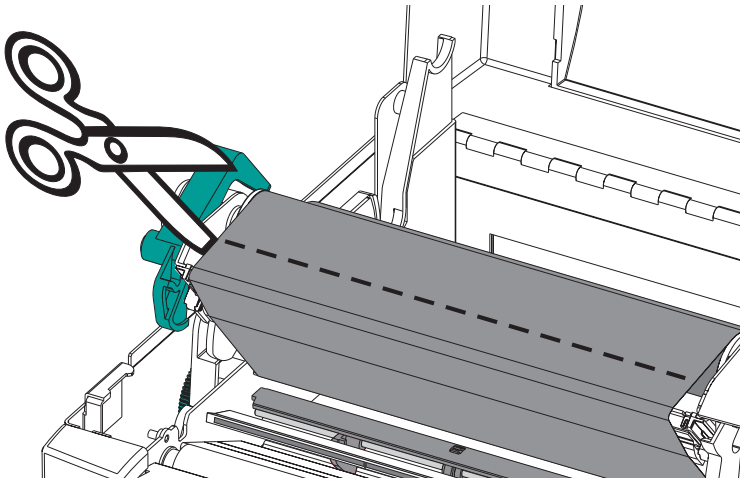
Removing A Partially Used Transfer Ribbon

If you must change a ribbon, you can remove a partially used transfer ribbon by following the steps below.

You can reload the unused portion remaining on the supply roll using the normal ribbon loading procedure.

Step ❶ Open the print carriage to release ribbon tension. Use scissors to cut the transfer ribbon just below the take-up roll.

Remove Old Ribbon



Step ❷ Remove the supply roll and tape the end to prevent it from unwrapping.

Step ❸ Remove the take-up roll.

Discard used ribbon off the take-up core. Save the empty take-up core for when you load ribbon again.

Top Of Form Sensing To accommodate different media and media dimensions, your printer is equipped with sensors capable of detecting the top of form for labels or tags. Two methods are used by the printer for top of form sensing: gap sensing and black mark sensing.

Gap Sensing The gap sensing feature depends on the ability of the movable transmissive (gap) sensor to "see through" the label liner between labels. Label and label backing liner opacity vary due to manufacturing differences in label stock. The sensor may have difficulty distinguishing the difference between labels and the liner and may require the user to AutoSense the media. Gap sensing is standard on all printers and the sensitivity is set with the AutoSense feature.

Black Mark Sensing The black mark sensing is acomplished by the printer's fixed position, reflective (black mark) sensor. The sensor is in the middle of the media path. The black mark sensor is used with special media that have a black mark printed on the back of the label liner or tag between each label or tag. Black mark sensing is standard on all printers.

Continuous Media If the media is continuous (fax or plain paper) with no marks notches or gaps, then the top of form and form length must be set by programming. The transmissive sensor senses media out. For proper operation, the printer needs to measure the length of the form.

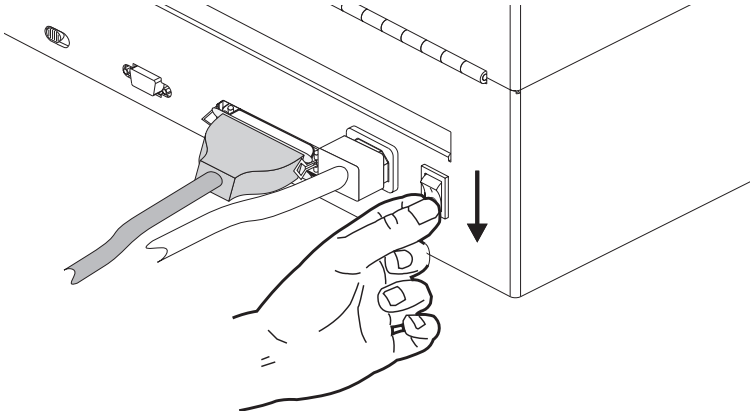
See the **Q** command in the EPL2 programming manual for setting the form length of continuous media with no label gaps, black line marks or notch holes.

Using AutoSense

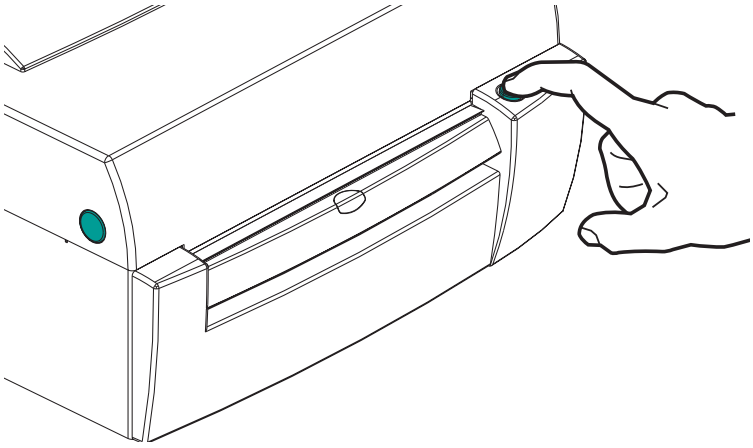
The AutoSense feature sets sensitivity of the transmissive sensor and measures and stores the form (label) and gap lengths.

Perform this procedure when loading a new roll. You cannot perform this procedure if using the printer's label dispenser option.

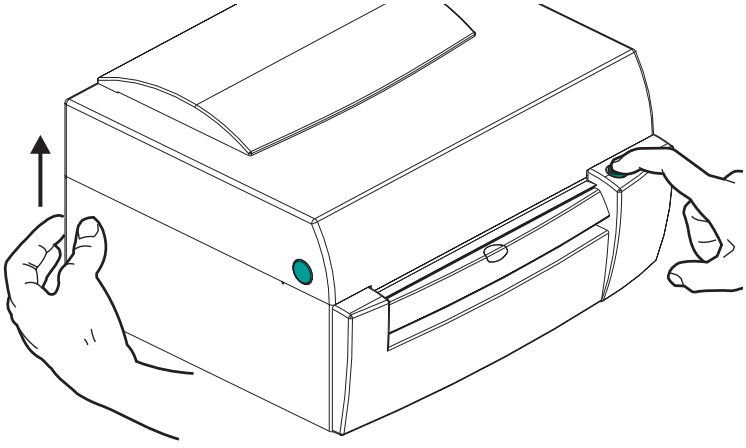
Power OFF



Hold Feed Button

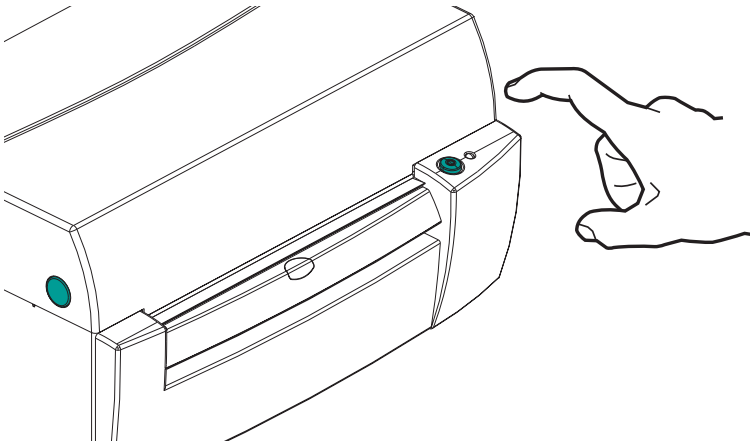


Power ON



Using AutoSense (cont.)

When Indicator Flashes, Release Feed Button



Printer Advances Media and Prints Status Summary

Note: Printer is in diagnostic dump mode

```
 8" UKQ1775 0.00.01 003
Serial port:96,N,8,1
Image buffer size:516K
Fmem:000.0K,019.9K avl
Gmem:000K,0241K avl
Emem:000K,0241K avl
I8,0,001 rN
S9 D13 R000,000 ZT UN
q1728 Q2377,061
Option:
10 12 15
```

Tap Feed Button To Begin Normal Operation

Note: Printer prints "out of DUMP"

If the indicator light turns AMBER or RED, see the troubleshooting steps.

Cleaning Your Printer

You have easy access to all of the printer's media path areas to allow for cleaning and clearing of media jams. You can clean the sensor areas, print head, platen roller and areas adjacent to the media path surfaces.

Warning -Shock Hazard - See page vi. Always turn the printer off before cleaning.

Warnung - Elektrische Gefahr - Zuerst abschalten dur Drucker. Säubern Sie jetzt den Drucker.

Use a brush or vacuum to clean the media path (except the print head).

Warning - Static Discharge - See page vi. Never touch the print head. Always clean the print head with a cleaning pen (to protect the print head from static discharge and fibers).

If a label has become jammed in the printer, remove the label and any adhesive residue, immediately. Adhesive may spread through out the printer's media path if not completely removed. Many adhesives are permanent and have short "set" times.

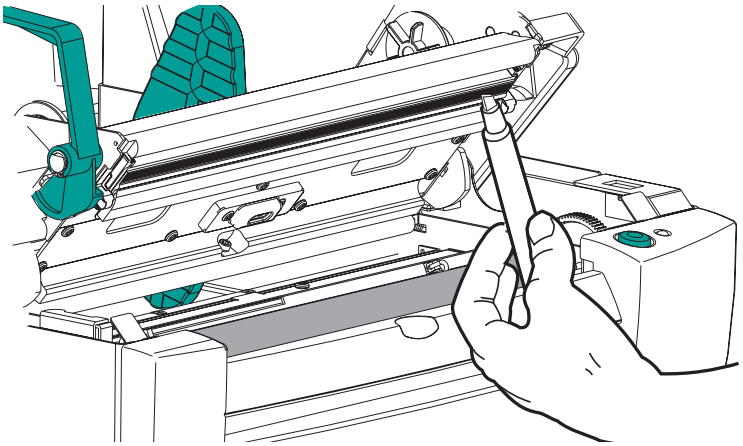
Cleaning the Print Head

Periodic cleaning improves print performance. Whenever new labels are loaded, the print head should be cleaned with a cleaning pen.

Step ❶ Open the print head carriage.

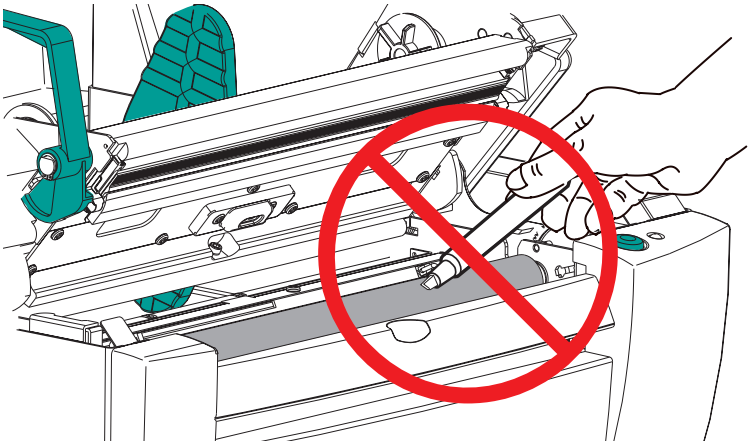
Step ❷ Wipe the pen across the print head.

Press the Cleaning Pen Firmly Against the Print Head



Step ❸ Let the print head dry for one minute

Keep Cleaning Pen Away From the Platen



Step ❹ Close and lock the print carriage.

If necessary, use a lint-free cloth very lightly moistened with water to clean the platen. Avoid using alcohol on the platen. Let the platen dry for several minutes before loading labels.

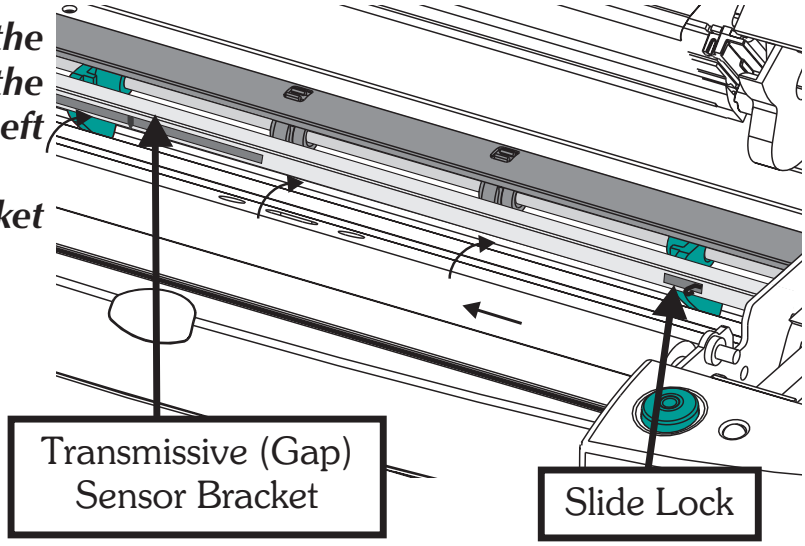
Cleaning Under the Sensor Bracket

The transmissive (gap) sensor guide bar bracket can pivot up for easy cleaning.

Step ❶ Open the print head carriage.

To Open the Bracket, Slide the Lock to the Left

Lift Up the Bracket



Step ❷ Clean the metal part of the bracket, only. The sensor is recessed to protect it from labels and adhesive.

Clean the clear sensor window below the sensor bracket. Avoid abrasive cleansers. Only use water on a lint free, clean, damp cloth very lightly moistened. Let dry. Verify that the window is clear of streaks and clouding.

Step ❸ Swing the sensor bracket down to close. The slide lock will automatically lock when in position.

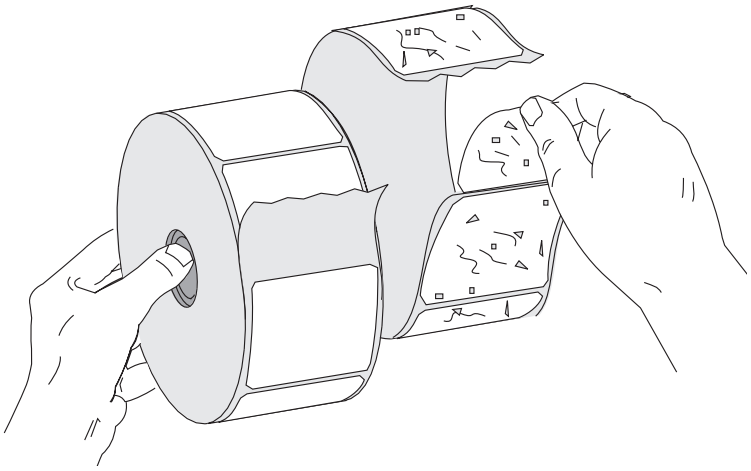
Step ❹ Close and lock the print carriage.

Preparing Media, Paper, and Labels Before Loading

During shipment, the outside length of media may become dirty when handled or dusty when stored. A preparation before loading media makes sure both the print head and platen stay cleaner for more time.

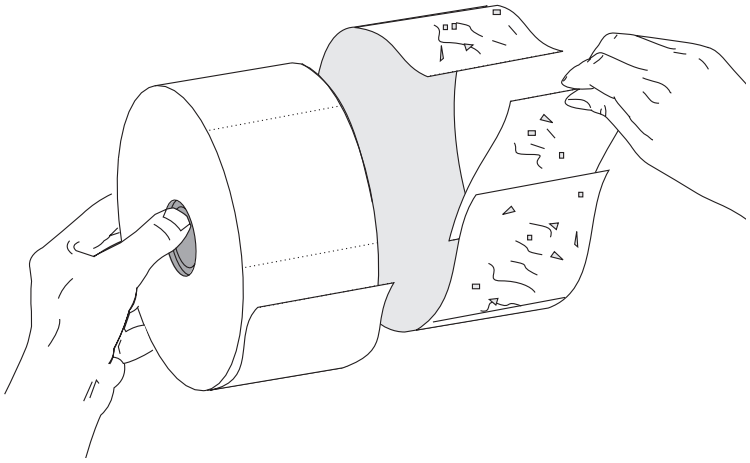
Label Rolls

Find the tape and pull off both labels held by the tape



Tag Stock Rolls

Find the tape and detach the bottom tag



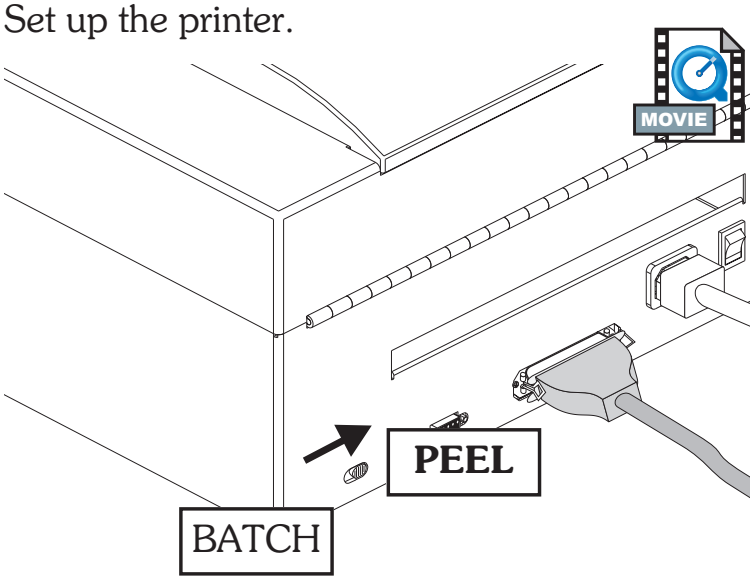
You must avoid dragging adhesive or dirty media between the print head and platen. Such an occurance damages the print head and is not covered under your warranty.

Using the Label Dispenser

Printers with the label dispenser function (indicated by a T after the model number) can dispense a single label that is already peeled away from the liner. Before performing these steps, load a media roll (refer to page 14 if necessary).

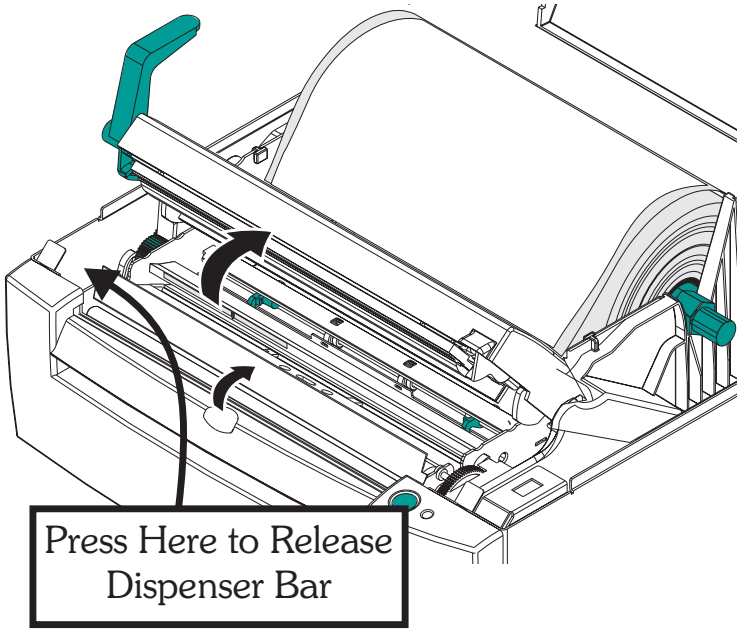
Step ❶ Set up the printer.

Switch to Peel Mode

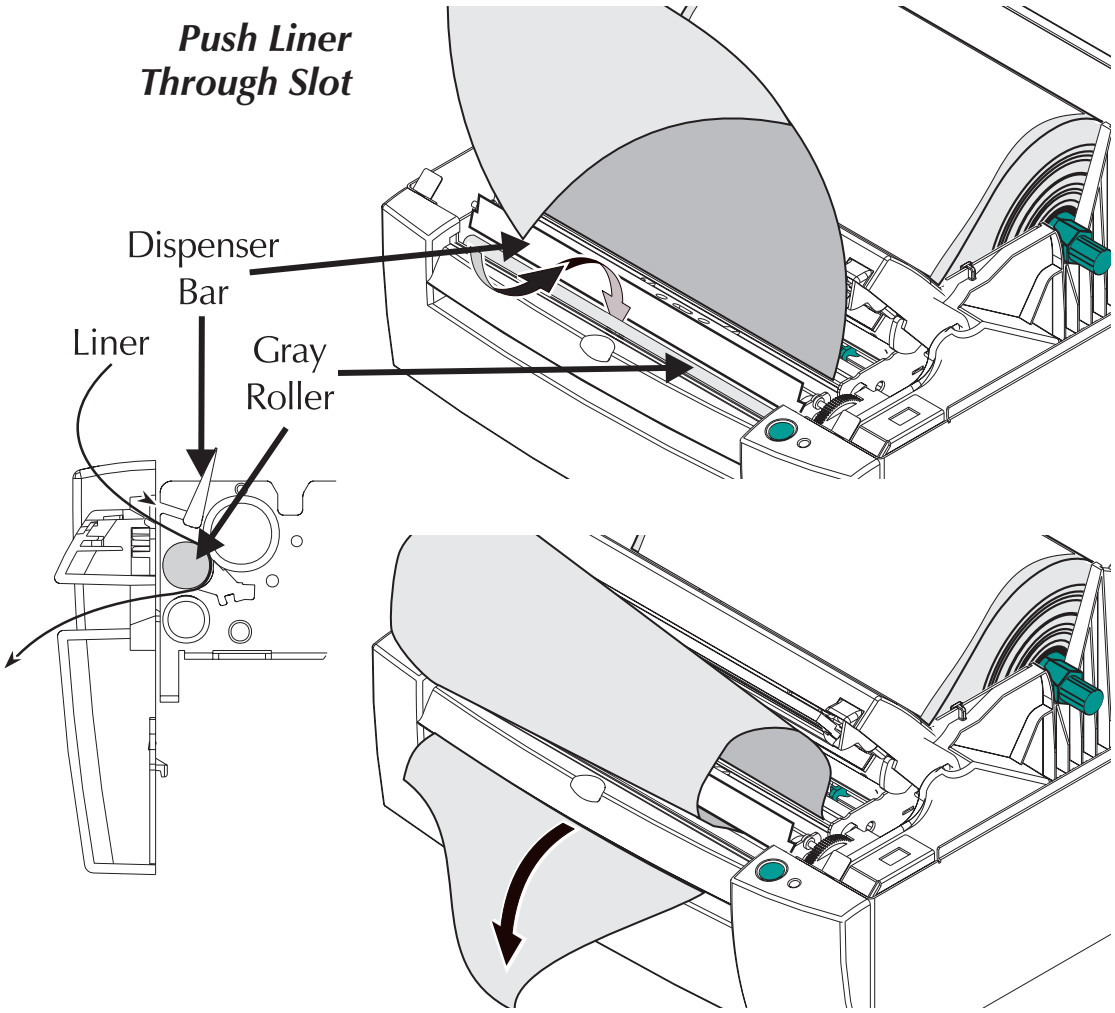


Step ❷ Open printer mechanisms.

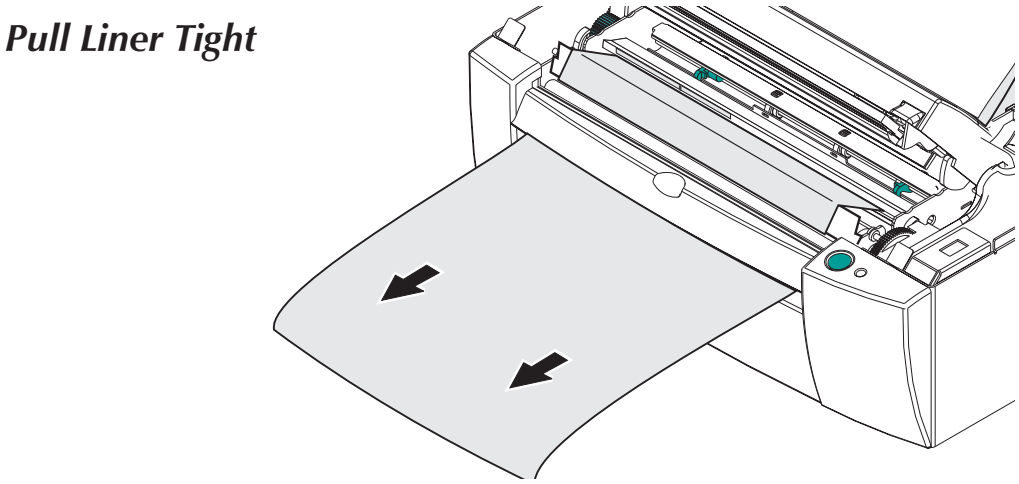
Lift Print Head and Dispenser Bar



Step ❸ Remove a few labels and thread the liner.

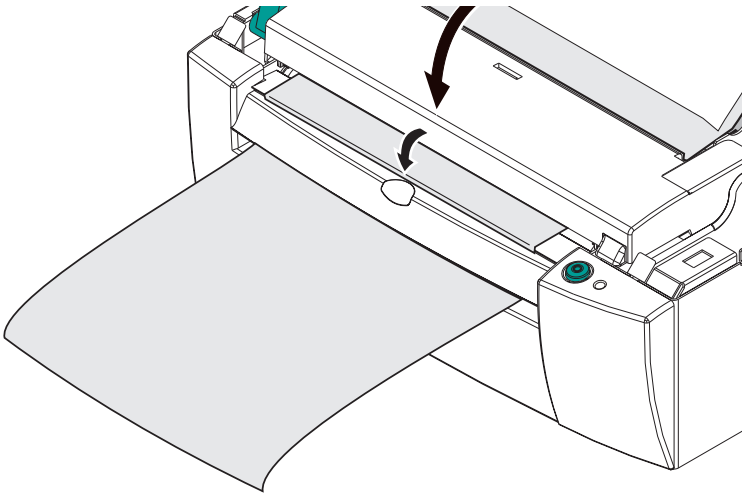


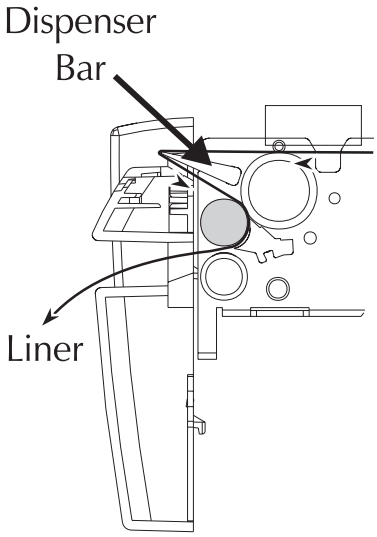
Step ❹ Remove slack from the liner.



Step ❺ Close printer mechanisms.

Lower Dispenser Bar and Close Print Head

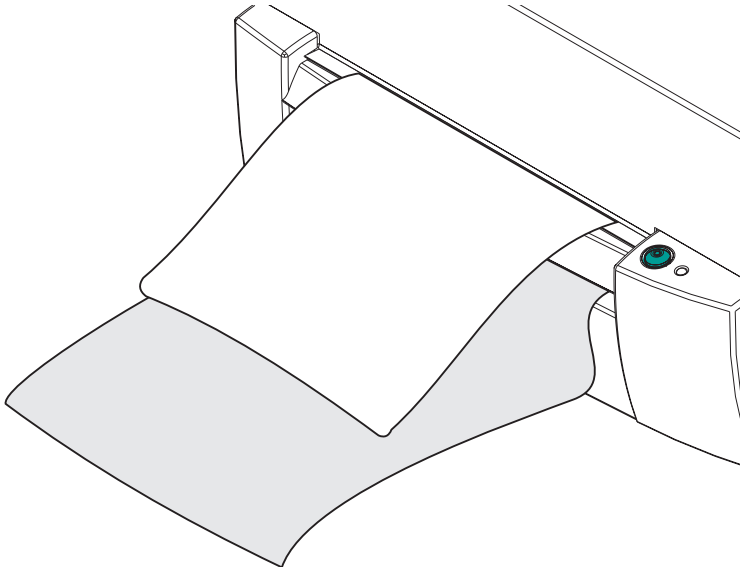


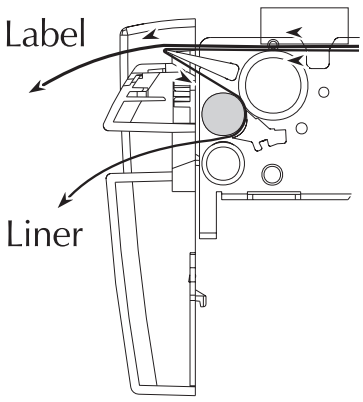


Keep liner tight against the dispenser bar. Adjust the media guides (refer to page 18).

Step ❻ Send your print job. You must remove each printed label before the next label prints.

After Printing, Take Label





Appendix A
Troubleshooting

This section addresses the most common issues you may face with operation and configuration of the printer.

Where to Start Your first troubleshooting reference source is the Common Problems Troubleshooting table on the following page.

Common Printing Problems Troubleshooting Guide

Problem	Solution or Reason
STATUS indicator does not light GREEN when power switch is turned to the ON (1) position.	1. Check power connections from the printer to the outlet. 2. Check that media and ribbon are loaded.
With the STATUS indicator light GREEN, the printer appears to be working, but nothing is printed.	1. Verify that the labels are the correct type. 2. Check the roll and verify that the print surface faces up for (direct thermal) printing. 3. Check that the transfer ribbon is correctly routed and has the ink side out (TLP only).
Printing is faded or poor quality.	1. Clean the print head with cleaning pen. 2. Adjust print speed/darkness in software or with programming. 3. Check the roll and verify that the media print surface is facing up. 4. Verify that the correct combination thermal transfer ribbon and media are in use.
Printing stops and the STATUS indicator lights RED.	1. Possible problem sensing labels with transmissive (gap) sensor. Perform AutoSense adjustment. Align the transmissive (gap) sensor position, see page 13. 2. Possible problem with label media. a) Gap between the bottom of a label and the top of the next label should be at least 1/16". b) For tags, see Tag Media Sensing, page 43. c) Use only approved labels and tags. 3. Possible label jam. 4. Check that the media is correctly routed. 5. Possible software/programming problem. a) Check the printer memory configuration. b) Refer to the EPL2 Programming manual for the correct data syntax. 6. Transmissive sensor is dirty. Clean media path.

Problem	**Solution or Reason**
Status Indicator is RED	1. Check for Out-of-Media condition or missing labels in the middle of a roll. 2. Check for Out-of-Ribbon condition or damage or previous use of ribbon in middle of the roll. 3. Check that the ribbon and label media are correctly routed. 4. When direct thermal printing, verify that the programmed mode (or printer driver) is set for direct thermal printing. See the programmer's manual for details. 5. Transmissive sensor is dirty. Clean media path. 6. Verify that the print head carriage is closed and latched.
Cutter option cuts labels instead of between labels.	1. Check that form length is set properly through programming. 2. Check that peel switch is in the "batch" position (towards outside of printer).

Serial Interface Communication Configuration

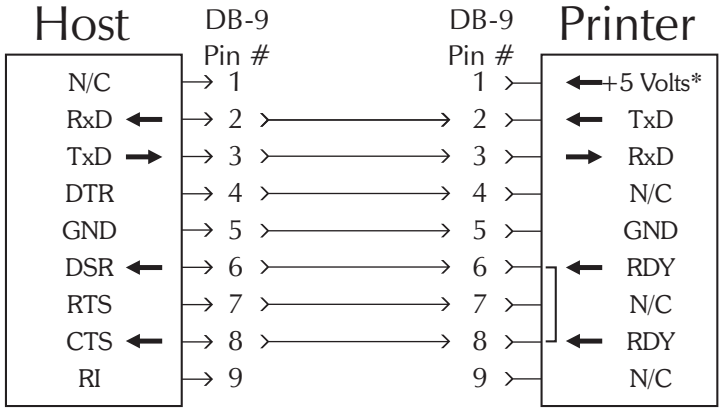
The printer's serial port is configured with the **Y** command for the printer. See the EPL2 programmer's manual for details.

The printer's serial port default configuration is:

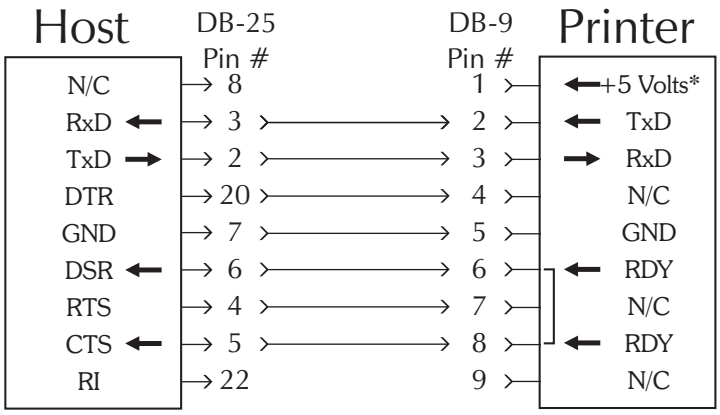
9600 baud
8 bit data
1 stop bit
No parity

Serial Interface Cable Wiring

The figure below displays the cable wiring required to use the printer's serial interface



Female DB-9 to Male DB-9

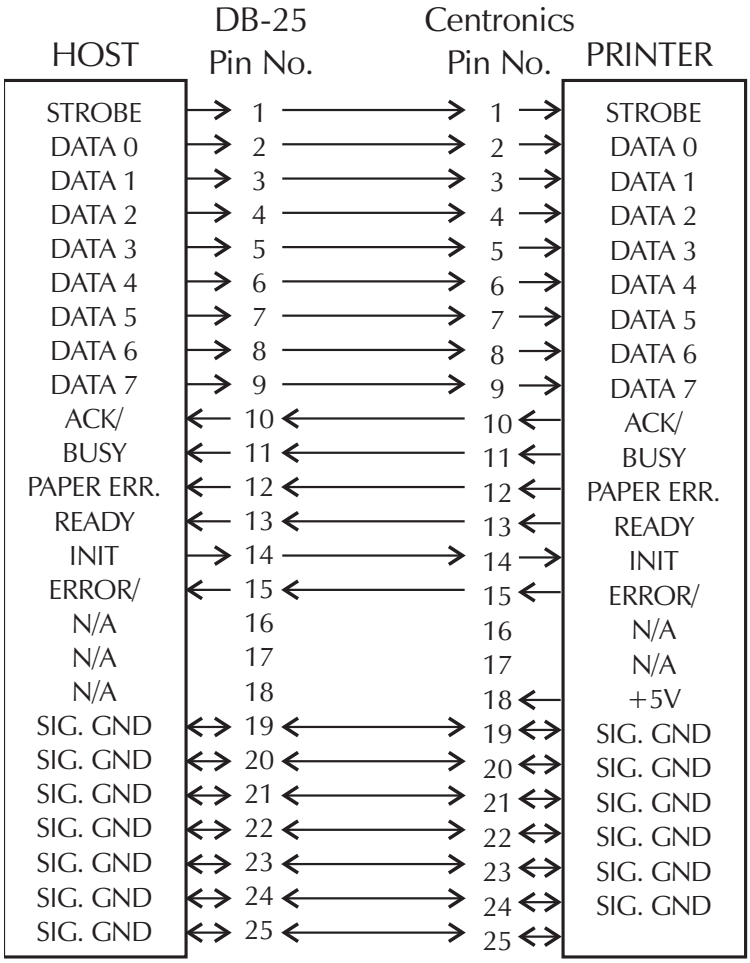


Female DB-25 to Male DB-9

*+5 volts at 150 mA for external device (e.g. KDU or scanner)

Parallel Interface Cable Wiring

The figure below displays the cable wiring required to use the printer's Centronics parallel interface.

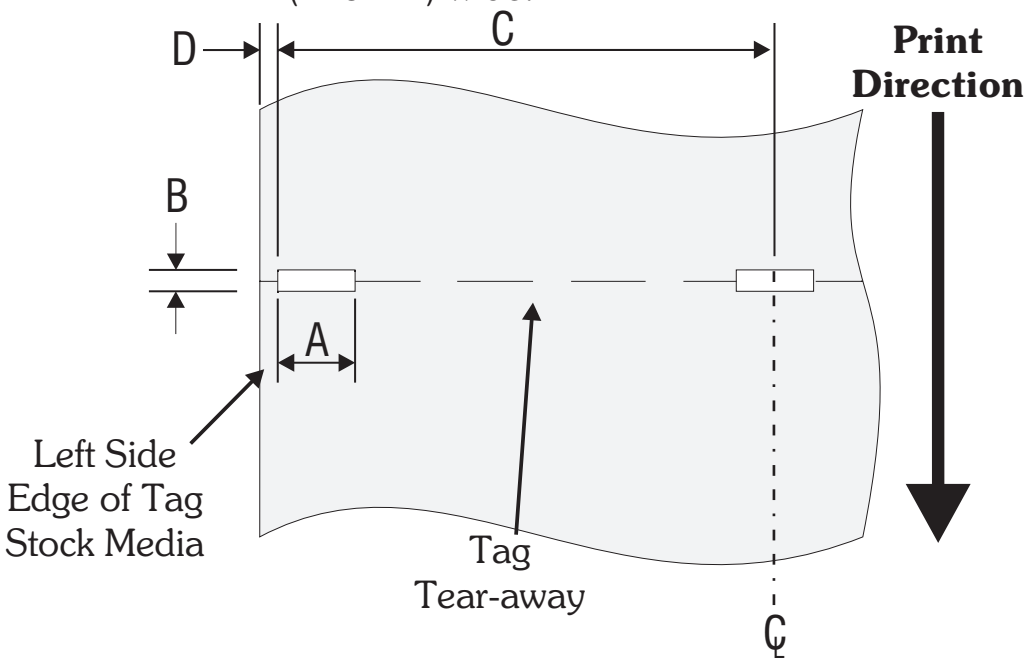

HOST
DB-25 Pin No.
Centronics Pin No.
PRINTER
STROBE 1 1 STROBE
DATA 0 2 2 DATA 0
DATA 1 3 3 DATA 1
DATA 2 4 4 DATA 2
DATA 3 5 5 DATA 3
DATA 4 6 6 DATA 4
DATA 5 7 7 DATA 5
DATA 6 8 8 DATA 6
DATA 7 9 9 DATA 7
ACK/ 10 10 ACK/
BUSY 11 11 BUSY
PAPER ERR. 12 12 PAPER ERR.
READY 13 13 READY
INIT 14 14 INIT
ERROR/ 15 15 ERROR/
N/A 16 16 N/A
N/A 17 17 N/A
N/A 18 18 +5V
SIG. GND 19 19 SIG. GND
SIG. GND 20 20 SIG. GND
SIG. GND 21 21 SIG. GND
SIG. GND 22 22 SIG. GND
SIG. GND 23 23 SIG. GND
SIG. GND 24 24 SIG. GND
SIG. GND 25 25

Female DB-25 to Male Centronics (Cable)

+5 volts at 300 mA for external device (e.g. KDU or scanner)

Tag Media Sensing

The printer uses a moveable sensor to detect index holes/notches in tag stock. The sensor can move from a center tag notch to a notch on the out side edge of tag stock as wide as 8.5 inches (216mm) wide.



The dimensions show the acceptable position range of the "Notch" (hole) on tag stock for the printer and the gap sensor's adjustment range.

Dimension	Min.	Max.	Nominal
A	.236" (6mm)	—	.512" (13mm)
B	.079" (2mm)	.512" (13mm)	.118" (3mm)
C	Sensor Adjustment Range (Left Side): From Center of Media to 4.3" (109mm)		
D	.250" (6.35mm)	—	—
Maximum Media Width With Roll Holders - 8.5" (216mm) Without Roll Holders - 8.75" (222mm)			

Appendix B
Using the Media Cutter

Printers with the cutter option have a bezel with a motorized blade. Printers with cutters can dispense a single form that is automatically cut from the media roll.

Guidelines

Use the cutter to cut through continuous paper from rolls and liner between labels.

You can switch cutting on and off by using the **OC** command. You can set form length and gap distances by using the **Q** command. Refer to the EPL2 programmer's manual for complete programming information.

Keep the cutter dry. Never use any solutions or solvents to clean the blade. If there is a jam, follow the steps for Clearing the Cutter.

Specifications

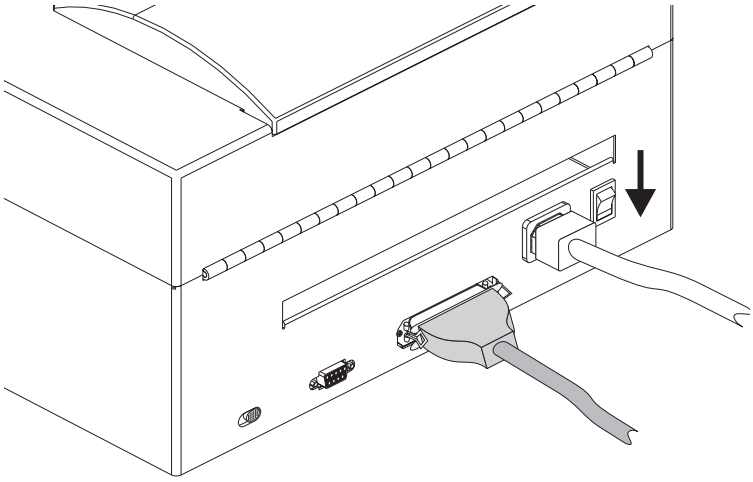
Cutter warranty	90 days
Blade life	500,000 cuts
Media types	Direct thermal paper Paper label liner Tag stock
MaximumThickness	0.0075 in. (0.191mm)
Density	150 g/m^2
Width	4.00 - 8.75 in. (101.6 - 222.25 mm)
Minimum length using cutter	1.25 in. (31.8 mm)

Clearing the Cutter

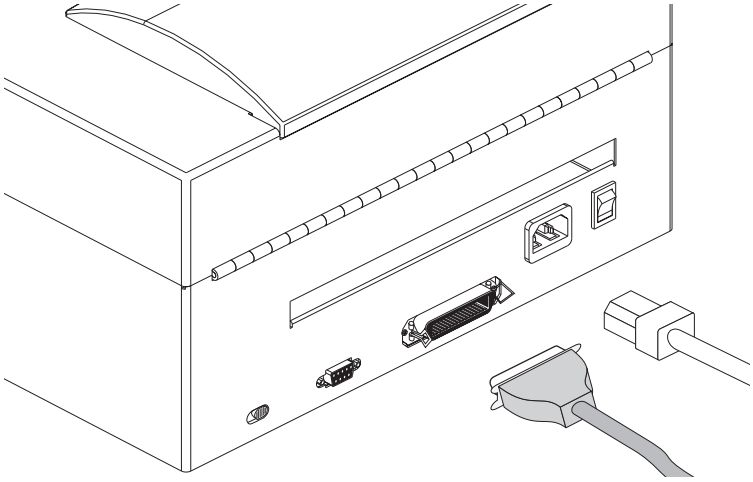
If the media is crooked, a jam can occur. The only tool required to clear a jam is a pair of small tweezers.

Step ❶ Prepare the printer.

Power OFF

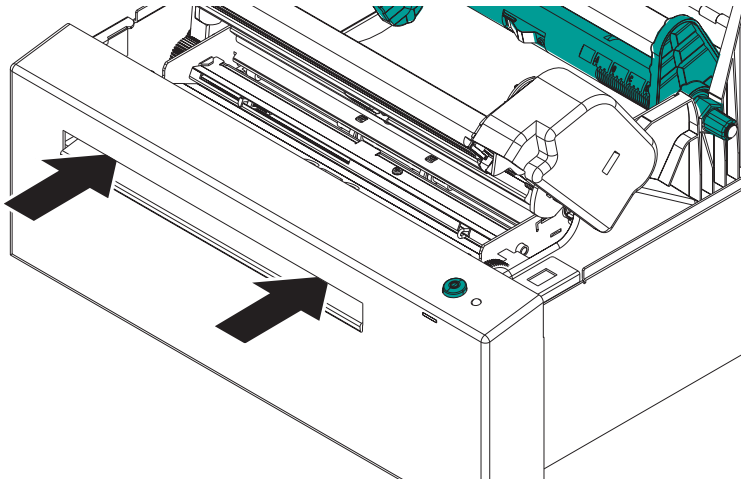


Detach Cables



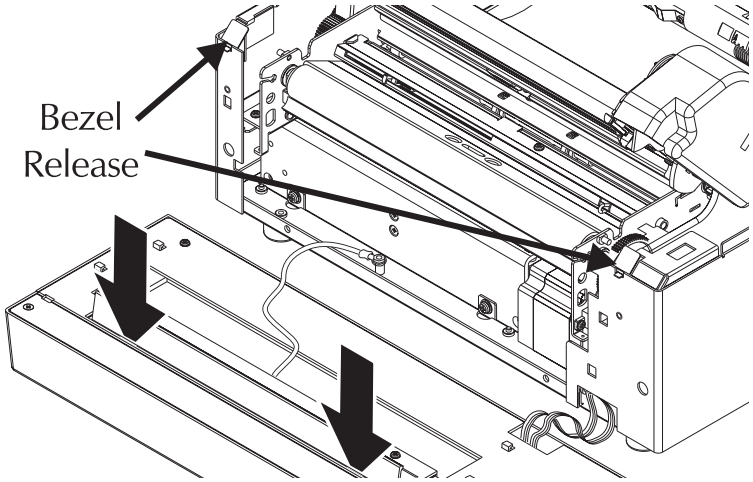
Step ❷ Clear the jam.

Use Tweezers



If the jam is inside the cutter, detach the cutter assembly from the printer. Press both bezel releases and pull the cutter up and forward.

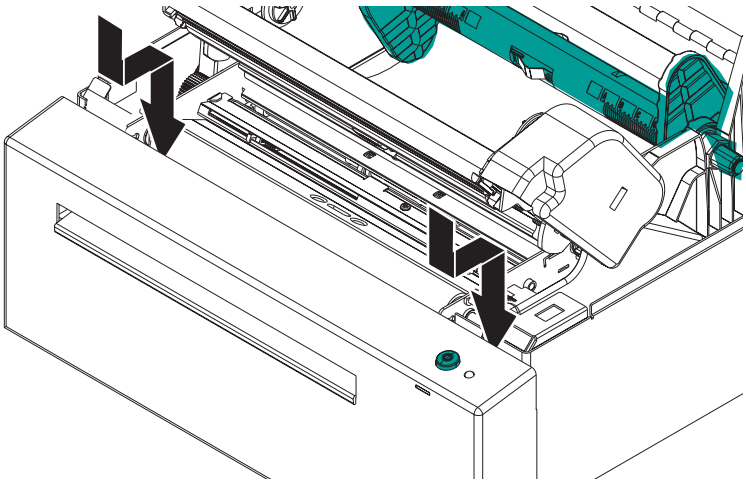
Use Tweezers



If you cannot remove the jammed media, call for service.

Step ❸ Replace the cutter.

Snap Bezel Back In Place



Step ❹ Check the cutter. Connect the power cord and interface cable.

Power ON

Check Operation and Proper Function